## A PROJECT

On

# STUDENT DATABASE ANALYSIS USING PYTHON

**BACHELOR OF TECHNOLOGY** 

By

DEPARTMENT OF DATA SCIENCE

AVALA HARIKA

22KP5A4401

Under the esteemed Guidance of

Er. S AKSHAY KUMAR

CS CODENZ



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CS CODENZ

GUDIVADA – 521 323, ANDHRA PRADESH., INDIA

2022-2023

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## **CS CODENZ**



#### **CERTIFICATE**

This is to certify that dissertation entitled "STUDENT DATABASE ANALYSIS USING PYTHON" submitted by AVALA HARIKA ( 22KP5A4401) in the partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY from CS CODENZ is a record of Bonafide work carried out by them under my guidance and supervision during the year 2022-2023.

Signature of the Supervisor

**Er.S Akshay Kumar** 

CS CODENZ

**Signature of the HOD** 

Mr.D. Koteswar Rao, M.Tech

Associative professor & HOD Data science NRIIT

## **DECLARATION**

I AVALA HARIKA (22KP5A4401) declared that the dissertation report entitled "STUDENT DATABASE
<b>ANALYSIS USING PYTHON</b> " is no more than 1,00,000 words in length including quotes and exclusive of
tables, figures, bibliography, and references.

Roll No	Name	Signature
22KP5A4401	AVALA HARIKA	
Date:		
Place:		

#### **ACKNOWLEDGEMENT**

This report dissertation could not have been written without the support of our guide **Er. S AKSHAY KUMAR CS CODENZ** who not only served as our superior but also encouraged and challenged us throughout our academic program our foremost thanks goes to his. Without his this dissertation would not have been possible. We appreciate him vast knowledge in many areas, and his insights, suggestions and guidance that helped to shape our research skills

It is needed with a great sense of pleasure and immense sense of gratitude that we acknowledge the help of these individuals. We owe many thanks to many people who helped and supported us during the writing of this report. We are thankful to our project coordinator **Er. S AKSHAY KUMAR CS CODENZ**, for his continuous support

We express our sincere thanks to our respected for bet valuable suggestion and constant motivation that greatly helped us in successful completion of project We also take the privilege to express our heartfelt gratitude to Er. S AKSHAY KUMAR CS CODENZ

We are thankful to all faculty members for extending their kind cooperation and assistance Finally, we are extremely thankful to our parents and friends for their constant helped moral support

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## **ABSTRACT**

The Primary objective of this " **STUDENT DATABASE ANALYSIS USING PYTHON**" is to fulfill requirements of large data sets into understandable by using some techniques. It includes data of historical warranty claims and real-time monitoring capabilities. The project also focuses on achieving a high level of accuracy in large data sets.

•

## **REQUIREMENTS**

## HARDWARE REQUIREMENTS

- Personal Computer / Laptop with minimum RAM (8 GB), ROM (256 GB) and Processor(i5)
- ➤ Good latency internet access

## SOFTWARE REQUIREMENTS

- ➤ Basic Search Engine (Google)
- ➤ Google Collaboratory
- ➤ MICROSOFT WORD
- > JUPYTER NOTEBOOK

## FUNCTIONAL REQUIREMENTS

- Calculation
- ➤ Help in manipulating data and easy process.
- > Graphical representation of Datasets
- > Importing pandas, numpy, matplotlib,

## DESCRIPTION

Data Analytics is a process of scrutinizing the data to obtain accurate results. In data analytics the main purpose is extracting the original data from data. In this data analytics we need to perform the major that is data munging.

#### STEPS OF DATA ANALYSIS

- 1. Data Pre processing
- 2. Dropping a particular row and column
- 3. Using Describe function
- 4. Finding null values and sum of null values
- 5. Shape of data
- 6. Columns of the data
- 7. Renaming of columns
- 8. Filtering data for CGPA
- 9. Replacing the inconsistency values
- 10. Finding CGPA which is greater than 8.0
- 11. Finding CGPA in descending order
- 12. Group by function
- 13. Changing the age which is in float in int
- 14. Using Matplotlib plotting a graph

## CODE

## 1) Import the data:

The first step in this is to collect data from students. We collect the data from our class students and merged that data into a huge amount of data.

## 2) COLLECTING THE DATA

**Pandas** - Helps to create a data set and it is also a library in python.

Pandas Package -It's a group of Panel Data's which are used to analyze the labelled data and relational data.

Series -A series is a method of pandas and labelled data. Series are nothing but columns in Excelsheet.

#### Importing data-

```
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
#reading data from excel fil
df=pd.read_excel('dsdbx.xlsx')
```

Email address \

#### **OUTPUT:**

**Timestamp** 

```
vennachandana1@gmail.com
 2023-06-13 14:24:58.772
  2023-06-13 14:25:15.609
                                    adilakshmi4765@gmail.com
  2023-06-13 14:25:50.957
                                   sravankumar7156@gmail.com
                                 sandeepyeruva1124@gmail.com
  2023-06-13 14:26:01.824
                                    sivajibejjanki@gmail.com
  2023-06-13 14:26:13.848
5
  2023-06-13 14:26:23.424
                                 ramyayalabolu123r@gmail.com
  2023-06-13 14:27:05.330
                                 charithareddy3914@gmail.com
                               gayathripolepalli70@gmail.com
  2023-06-13 14:27:16.973
                                    syedtasleem07@gmail.com
  2023-06-13 14:27:41.072
  2023-06-13 14:28:10.012
                                   sowjanyathota11@gmail.com
                                    tammasahithi1@gmail.com
10 2023-06-13 14:28:10.559
11 2023-06-13 14:28:34.026
                                     podilisarayu6@gmail.com
12 2023-06-13 14:28:43.092
                                  shaikkarishma811@gmail.com
                                 kumarvalaparla890@gmail.com
13 2023-06-13 14:28:57.412
14 2023-06-13 14:30:05.091
                                     patchachinnu3@gmail.com
15 2023-06-13 14:30:05.577
                                       manu952041@gmail.com
16 2023-06-13 14:30:07.913
                                  vanukuri.raghava@gmail.com
17 2023-06-13 14:30:57.744
                                     shaiksakina05@gmail.com
18 2023-06-13 14:33:16.842
                                         us465249@gmail.com
                                 vallu.srinu756939@gmail.com
19 2023-06-13 14:36:46.844
20 2023-06-13 14:34:05.142
                            undelachandraobulareddy@gmail.com
                                    farukh.786syed@gmail.com
21 2023-06-13 14:32:17.269
22 2023-06-13 14:33:08.038
                                  anushayalabolu12@gmail.com
                                   madhulathasure9@gmail.com
23 2023-06-13 14:33:16.147
24 2023-06-13 14:34:00.504
                            thammisettysrikanthraj9@gmail.com
                                    shiakmobin2002@gmail.com
25 2023-06-13 14:34:24.599
                                   abdulkhadar6842@gmail.com
26 2023-06-13 14:34:24.985
27 2023-06-13 14:34:31.602
                                      ravuakshaya@gmail.com
28 2023-06-13 14:34:41.989
                           hemasanjushasanikommu828@gmail.com
                                    ynagasasikumar@gmail.com
29 2023-06-13 14:34:52.277
30 2023-06-13 14:35:26.194
                               rahamtunnisashaik09@gmail.com
              MOTHER NAME COURSE CGPA AGE \
0
         Venna Lakshmidevi
                                DS
                                       8
                                          19
1
             N.Sri Lakshmi
                              CSE
                                     83
                                          19
2
                                         7
                                             20
                              MECH
           Venkateswaramma
3
         Yeruva Anjali Devi
                              CSE
                                    9.5
                                          20
```

\_\_\_1

```
B.veramma
                             DS 0.72
                                       23
5
         Y Lakshmi Rajyam
                              DS
                                    80
                                        19
6
               P.Kavitha
                           DS
                                 70
                                      19
7
         POLEPALLI.SRIDEVI
                                DS
                                      10
                                           19
8
             Syed Naseema
                           MECH
                                         19
9
           T.ARUNA KUMARI
                                 DS
                                        8
                                           19
10
          Tamma Padmavathi
                              DS
                                   7.7
                                        19
                          EMAIL \
          vennachandana1@gmail.com
0
           adilakshmi4765@gmail.com
1
2
          sravankumar7156@gmail.com
3
         sandeepyeruva1124@gmail.com
4
           sivajibejjanki@gmail.com
5
         ramyayalabolu123r@gmail.com
6
         charithareddy3914@gmail.com
7
       gayathripolepalli70@gmail.com
8
            syedtasleem07@gmail.com
9
          sowjanyathota11@gmail.com
10
            tammasahithi1@gmail.com
11
            Podilisarayu6@gmail.com
12
          shaikkarishma811@gmail.com
13
        Kumarvalaparla890@gmail.com
14
             Patchachinnu@gmail.com
15
               manu952041@gmail.com
          vanukuri.raghava@gmail.com
16
            Shaiksakina05@gmail.com
17
               us465249@gmail.com
18
19
        vallu.srinu756939@gmail.com
20
    undelachandraobulareddy@gmail.com
        #data preprocessing
        print(df.info())
        print(df.dropna())
        print(df.isnull())
        (df.fillna(method='bfill'))
        (df.fillna(method='ffill'))
OUTPUT:
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 52 entries, 0 to 51
Data columns (total 13 columns):
```

Non-Null Count Dtype

Column

0	Timestamp	52 non-null	datetime64[ns]
1	Email address	52 non-null	object
2	STUDENT NAME	52 non-nul	l object
3	ROLL NUMBER	52 non-null	object
4	FATHER NAME	52 non-null	object
5	MOTHER NAME	52 non-null	object
6	COURSE	52 non-null	object
7	CGPA	52 non-null	object
8	AGE	52 non-null	object
9	EMAIL	52 non-null	object
10	BRANCH	48 non-null	object
11	CURRENT SEMIS	STER 52 non-nu	ıll object
12	AADHAAR NO	52 non-null	object
dtype	es: datetime64[ns](1	), object(12)	
mem	ory usage: 5.4+ KE	3	
None	2		

		Timestamp	Email address \
0	2023-06-13	14:24:58.772	vennachandana1@gmail.com
1	2023-06-13	14:25:15.609	adilakshmi4765@gmail.com
2	2023-06-13	14:25:50.957	sravankumar7156@gmail.com
3	2023-06-13	14:26:01.824	sandeepyeruva1124@gmail.com
4	2023-06-13	14:26:13.848	sivajibejjanki@gmail.com
5	2023-06-13	14:26:23.424	ramyayalabolu123r@gmail.com
6	2023-06-13	14:27:05.330	charithareddy3914@gmail.com
7	2023-06-13	14:27:16.973	gayathripolepalli70@gmail.com
8	2023-06-13	14:27:41.072	syedtasleem07@gmail.com
9	2023-06-13	14:28:10.012	sowjanyathota11@gmail.com
10	2023-06-13	14:28:10.559	tammasahithi1@gmail.com

	Tim esta mp	Email address	STU DEN T NAM E	ROL L NU MBE R	FATH ER NAM E	MOTHE R NAME	CO UR SE	C G P A	A G E	EMAIL	BR AN CH	RR ENT SE MIS TER	AAD HAA R NO
1	2023 -06- 13 14:2 4:58. 772	vennachanda na1@gmail. com	Venn a Chan dana	21KP 1A44 C5	Venna Raman areddy	Venna Lakshmi devi	DS	8	1 9	vennachanda na1@gmail. com	Dat a scie nce	2-2	6363 3692 2883
	2023 -06- 1 13 14:2 5:15.	adilakshmi4 765@gmail. com	N.Ve nkates h	21KP 1A44 68	N.Man ikya Rao	N.Sri Lakshmi	CS E	83	1 9	adilakshmi4 765@gmail. com	CS E- DS	II-II	6025 1525 8256

	Tim esta mp	Email address	STU DEN T NAM E	ROL L NU MBE R	FATH ER NAM E	MOTHE R NAME	CO UR SE	C G P A	A G E	EMAIL	BR AN CH	CU RR ENT SE MIS TER	AAD HAA R NO
2	2023 -06- 13 14:2 5:50. 957	sravankumar 7156@gmail .com	Srava n Kuma r	21KP 1A44 88	Rama Chand ra Rao	Venkates waramm a	ME CH	7	2 0	sravankumar 7156@gmail .com	mec h	4	9303 1905 3088
3	2023 -06- 13 14:2 6:01. 824	sandeepyeru va1124@gm ail.com	Yeruv a sande ep reddy	21KP 1A44 D1	Yeruv a Ajay Kumar reddy	Yeruva Anjali Devi	CS E	9. 5	2 0	sandeepyeru va1124@gm ail.com	CS E	2-3	5761 5499 0146
4	2023 -06- 13 14:2 6:13. 848	sivajibejjank i@gmail.co m	B.siva ji	22kp 5a44 02	B.laks hmaia h	B.veram ma	DS	0. 72	2 3	sivajibejjank i@gmail.co m	Co mp uter scie nce	2-2	8954 4466 2410
5	2023 -06- 13 14:2 6:23. 424	ramyayalabo lu123r@gma il.com	Y.Ra mya	21KP 1A44 C8	Y.Anja iah	Y Lakshmi Rajyam	DS	80	1 9	ramyayalabo lu123r@gma il.com	CS D	2-2	7245 7458 8425
6	2023 -06- 13 14:2 7:05. 330	charitharedd y3914@gma il.com	P.char itha reddy	21KP 1A44 75	P.Mad hava Reddy	P.Kavith a	DS	70	1 9	charitharedd y3914@gma il.com	CS D	2.2	8101 7752 4502
7	2023 -06- 13 14:2 7:16. 973	gayathripole palli70@gm ail.com	POLE PALL I. GAY ATH RI	21KP 1A44 81	POLE PALLI GURU BRAH MA CHAR	POLEPA LLI.SRI DEVI	DS	10	1 9	gayathripole palli70@gm ail.com	Dat a Scie nce	2-2	7218 1916 8061

	Tim esta mp	Email address	STU DEN T NAM E	ROL L NU MBE R	FATH ER NAM E	MOTHE R NAME	CO UR SE	C G P A	A G E	EMAIL	BR AN CH	CU RR ENT SE MIS TER	AAD HAA R NO
8	2023 -06- 13 14:2 7:41. 072	syedtasleem 07@gmail.c om	Syed Tasle em Afroz e	21KP 1A44 A9	Syed Rahim an	Syed Naseema	ME CH	8	1 9	syedtasleem 07@gmail.c om	DS	2-2	6170 2035 4793
9	2023 -06- 13 14:2 8:10. 012	sowjanyatho ta11@gmail. com	T.SO WJA NYA	21KP 1A44 B6	T.SA MBA SIVA RAO	T.ARUN A KUMAR I	DS	8	1 9	sowjanyatho ta11@gmail. com	DA TA SCI EN CE	2-2	3386 6694 8901
1 0	2023 -06- 13 14:2 8:10. 559	tammasahith i1@gmail.co m	Tam ma Sahith i	21KP 1A44 B0	Tamm a krishn a reddy	Tamma Padmava thi	DS	7. 7	1 9	tammasahith i1@gmail.co m	CS E (Da ta scie nce)	2-2	6853 4983 2128
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17		ramyayalab charitharedo gayathripolepa syedta sowjanya tamma podilis shaikkaris kumarvalap patcha ma	ina1@gn 4765@gi mar7156 uva1124 ijjanki@g olu123r@g dy3914@a alli70@g sleem07 ithota11@asahithi1 sarayu6@ hma811@arla890@chinnu3@	mail.com @gmail. @gmail.co @gmail.com	n .com com m com om com com com com com com	Yo POL	Venna Neruva P.cha EPALI Syed T DILI Sh a Arav Par	Cha I.Ver Sra sando Aritha LI. Caslee Tam LAK naik vind tcha pulus	ndankate nkate nvan eep 3.siv Yarec SAY Eem A SSHM kari Kun Jasv Ra	esh Kumar reddy aji .Ramya ddy ATHRI Afroze WJANYA Sahithi MISARAYU shma		1	1.

18 us465249@gmail.com S sk usman

vallu.srinu756939@gmail.com Vallu Srinu Siva Subrahmanyam

undelachandraobulareddy@gmail.com Undela Chandra Obula Reddy 20

#by using describe function df1=df["CGPA"].describe() print(df1)

## **OUTPUT**:

19

count 52 unique 27 top 80 freq 7

Name: CGPA, dtype: int64

In [7]:

In [6]:

#finding null values and sum of null va. df. Isnull()

#### **OUTPUT:**

	Email addre ss	STUDE NT NAME	ROLL NUMB ER	FATH ER NAME	MOTH ER NAME	COUR SE	CGP A	AG E	BRAN CH	CURRE NT SEMIST ER	AADHA AR NO
0	False	False	False	False	False	False	False	Fals e	False	False	False
1	False	False	False	False	False	False	False	Fals e	False	False	False
2	False	False	False	False	False	False	False	Fals e	False	False	False
3	False	False	False	False	False	False	False	Fals e	False	False	False
4	False	False	False	False	False	False	False	Fals	False	False	False

	Email addre ss	STUDE NT NAME	ROLL NUMB ER	FATH ER NAME	MOTH ER NAME	COUR SE	CGP A	AG E	BRAN CH	CURRE NT SEMIST ER	AADHA AR NO
								e			
5	False	False	False	False	False	False	False	Fals e	False	False	False
6	False	False	False	False	False	False	False	Fals e	False	False	False
7	False	False	False	False	False	False	False	Fals e	False	False	False
8	False	False	False	False	False	False	False	Fals e	False	False	False
9	False	False	False	False	False	False	False	Fals e	False	False	False
1 0	False	False	False	False	False	False	False	Fals e	False	False	False
1 1	False	False	False	False	False	False	False	Fals e	False	False	False
1 2	False	False	False	False	False	False	False	Fals e	False	False	False
1 3	False	False	False	False	False	False	False	Fals e	False	False	False
1 4	False	False	False	False	False	False	False	Fals e	False	False	False
1 5	False	False	False	False	False	False	False	Fals e	True	False	False
1 6	False	False	False	False	False	False	False	Fals e	False	False	False
1 7	False	False	False	False	False	False	False	Fals e	False	False	False
1 8	False	False	False	False	False	False	False	Fals e	False	False	False
1 9	False	False	False	False	False	False	False	Fals e	False	False	False
2	False	False	False	False	False	False	False	Fals	False	False	False

	Email addre ss	STUDE NT NAME	ROLL NUMB ER	FATH ER NAME	MOTH ER NAME	COUR SE	CGP A	AG E	BRAN CH	CURRE NT SEMIST ER	AADHA AR NO	
0								e				

#finding null values and sum of null values

## OUTPUT:

Email addre ss	STUDE NT NAME	ROLL NUMB ER	FATH ER NAME	MOTH ER NAME	COUR SE	CGP A	AG E	BRAN CH	CURRE NT SEMIST ER	AADHA AR NO	
0	False	False	False	False	False	False	Fals e	False	False	False	Fal se
1	False	False	False	False	False	False	Fals e	False	False	False	Fal se
2	False	False	False	False	False	False	Fals e	False	False	False	Fal se
3	False	False	False	False	False	False	Fals e	False	False	False	Fal se
4	False	False	False	False	False	False	Fals e	False	False	False	Fal se
5	False	False	False	False	False	False	Fals e	False	False	False	Fal se
6	False	False	False	False	False	False	Fals e	False	False	False	Fal se
7	False	False	False	False	False	False	Fals e	False	False	False	Fal se
8	False	False	False	False	False	False	Fals e	False	False	False	Fal se
9	False	False	False	False	False	False	Fals e	False	False	False	Fal se
10	False	False	False	False	False	False	Fals e	False	False	False	Fal se
11	False	False	False	False	False	False	Fals e	False	False	False	Fal se

Email addre ss	STUDE NT NAME	ROLL NUMB ER	FATH ER NAME	MOTH ER NAME	COUR SE	CGP A	AG E	BRAN CH	CURRE NT SEMIST ER	AADHA AR NO	
12	False	False	False	False	False	False	Fals e	False	False	False	Fal se
13	False	False	False	False	False	False	Fals e	False	False	False	Fal se
14	False	False	False	False	False	False	Fals e	False	False	False	Fal se
15	False	False	False	False	False	False	Fals e	False	True	False	Fal se
16	False	False	False	False	False	False	Fals e	False	False	False	Fal se
17	False	False	False	False	False	False	Fals e	False	False	False	Fal se
18	False	False	False	False	False	False	Fals e	False	False	False	Fal se
19	False	False	False	False	False	False	Fals e	False	False	False	Fal se
20	False	False	False	False	False	False	Fals e	False	False	False	Fal se

#filling null values using ffill
df.ffill(axis=1,inplace=True)
df.isnull().sum()

## **OUTPUT:**

Email address 0

STUDENT NAME 0 0 ROLL NUMBER FATHER NAME 0 0 MOTHER NAME COURSE 0 CGPA 0 AGE 0 BRANCH 0 CURRENT SEMISTER 0 AADHAAR NO 0 dtype: int64

#shaping the data frame by using shape()
print("shape of the data frame:")
print(df.shape)

#### **OUTPUT:**

shape of the data frame: (52, 11)

df.columns

#### **OUTPUT:**

Index(['Email address', 'STUDENT NAME', 'ROLL NUMBER', 'FATHER NAME', 'MOTHER NAME', 'COURSE', 'CGPA', 'AGE', 'BRANCH', 'CURRENT SEMISTER', 'AADHAAR NO'], dtype='object')

```
#renaming the column names
df.rename(columns={'Email address':'Gmail','CURRENT
SEMISTER':'SEMISTER','AADHAR NO':'UIDAI NO'},inplace=True)
print(df.columns)
```

#### **OUTPUT:**

Index(['Gmail', 'STUDENT NAME', 'ROLL NUMBER', 'FATHER NAME', 'MOTHER NAME', 'COURSE', 'CGPA', 'AGE', 'BRANCH', 'SEMISTER', 'AADHAAR NO'], dtype='object')

#### Print(df)

#### **OUTPUT:**

	Gmail	STUDENT NAM	ME \					
0	ven	nachandana1@gmail.com		Venna Chandana				
1	adil	akshmi4765@gmail.com		N.Venkatesh				
2	srava	nkumar7156@gmail.com		Sravan Kumar				
3	sandeer	oyeruva1124@gmail.com	Yeruv	va sandeep reddy				
4	siva	ijibejjanki@gmail.com		B.sivaji				
5	ramyay	alabolu123r@gmail.com		Y.Ramya				
6	charitha	areddy3914@gmail.com	P	.charitha reddy				
7	gayathripo	olepalli70@gmail.com	POLEPA	ALLI. GAYATHRI				
8	sy	edtasleem07@gmail.com	Syec	l Tasleem Afroze				
9	sowj	anyathota11@gmail.com		T.SOWJANYA				
10	taı	nmasahithi1@gmail.com		Tamma Sahithi				
11	po	dilisarayu6@gmail.com	PODII	I LAKSHMISARAYU				
12	shaikk	arishma811@gmail.com		shaik karishma				
13	kumarv	alaparla890@gmail.com	Venkata Aravind Kumar.V					
14	pa	tchachinnu3@gmail.com	Patcha Jaswanth					
15		manu952041@gmail.com	com Pachipulusu Manohar					
16	vanuk	uri.raghava@gmail.com		Raghava				
17	sh	aiksakina05@gmail.com		Shaik sameer				
18		us465249@gmail.com		S sk usman				
19	vallu.sr	inu756939@gmail.com Vallu	u Srinu Siva S	Subrahmanyam				
20	undelachandra	obulareddy@gmail.com U	Undela Chandr	a Obula Reddy				
	ROLL NUMBE	ER FAT	HER NAME	MOTHER NAME	\			
0	21KP1A44C5	Venna Ramanar	eddy	Venna Lakshmidevi				
1	21KP1A4468	N.Manikya	a Rao	N.Sri Lakshmi				
2	21KP1A4488	Rama Chandr	a Rao	Venkateswaramma				
3	21KP1A44D1	Yeruva Ajay Kumar	reddy	Yeruva Anjali Devi				
4	22kp5a4402	B.lakshma	iah	B.veramma				
5	21KP1A44C8	Y.An		Y Lakshmi Rajyam				
6	21KP1A4475	P.Madhava I	Reddy	P.Kavitha				
7	21KP1A4481	POLEPALLI. GURUBRAH	MA CHARI	POLEPALLI.SRIDEVI				

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8	21KP1	A44A9		Syed Rahiman	Syed Naseema				
9	21KP1	A44B6		T.SAMBA SIVA RAO	T.ARUNA KUMARI				
10	21KP1	A44B0		Tamma krishna reddy	Tamma Padmavathi				
11	21KP1	A4480		PODILI RAMESH	PODILI ADILAKSHMI				
12	2 21KP1A4496			SHAIK BAJI	SHAIK KHADRUN				
13	3 21KP1A44C0			Veeraswamy.v	Lakshmi.v				
14				Patcha apparao	Patcha sukanya				
15	21KP1	A4472		Pachipulusu Prasad	Pachipulusu Bhavani				
16	21KP1	A44C3		Srinivasa reddy	Jyothi				
17	21KP1	A44A3		Shaik Rahim babu	Shaik Raziya				
18	21KP1	A4492		S sk mastan vali	Mahabobba				
19	21KP1A	44C1		Vallu Srinivasa Rao	Vallu Surya kumari				
20	21KP1	A44B9	1	Undela Chinna Obula Reddy	Undela GuruLakshmi				
	COURSE			.GE	BRANCH \				
0	DS	8	19		Data science				
1	CSE	83	19		CSE-DS				
2	MECH	7	20		mech				
3	CSE	9.5	20		CSE				
4	DS	0.72	23	Co	omputer science				
5	DS	80	19		CSD				
6	DS	70	19		CSD				
7	DS	10	19		Data Science				
8	MECH	8	19	r	DS				
9	DS	8	19		DATA SCIENCE				
10	DS	7.7	19	CSE	(Data science)				
11	DS	7.5	19		DATA SCIENCE				
12	DS	9	19		ds				
13	DS	0.98	20		Data Science				
14	CSE	0.99	20		Data science				
15	MECH	8.5	19		19				
16	DS	7	19		Data science				
17	DS	80	20		DS				
18	DS	50	19		DS				
19	DS	73	20	Computer Science Engineering&					
20	DS	9.2	20		omputer Science				
	SEN	MISTER		AADHAAR NO					
0		2-2		6336922883					
1		II-II		515258256					
2		4		80319053088					
3		2-3		6154990146					
4		2-2		5444662410					
5		2-2		4574588425					
6		2.2		0177524502					
7		2-2		1819168061					
8		2-2		7020354793					
9		2-2		8666948901					
10		2-2		5349832128					
11		2-2		8689741091					
12		2-2		3048521599					
13		2-2	51	0305345824					

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14	2-2	744020413963
15	2-2	559366114423
16	2-2	424973081348
17	2-2	529261464345
18	2-2	568753875709
19	4	******
20	2-2	693621780842

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df.replace({'70':70},inplace=True)
print(df)

## **OUTPUT:**

		Gmail	STUDENT NAME			
0	ven	nachandana1@gmail.com	Venna Chandana			
1		akshmi4765@gmail.com	N.Venkatesh			
2		nkumar7156@gmail.com	Sravan Kumar			
3		oyeruva1124@gmail.com	Yeruva sandeep reddy			
4	•	jibejjanki@gmail.com	B.sivaji			
5		alabolu123r@gmail.com	Y.Ramya			
6		nreddy3914@gmail.com	P.charitha reddy			
7		olepalli70@gmail.com	POLEPALLI. GAYATHRI			
8		edtasleem07@gmail.com	Syed Tasleem Afroze			
9		anyathota11@gmail.com	T.SOWJANYA			
10	-	nmasahithi1@gmail.com	Tamma Sahithi			
11		dilisarayu6@gmail.com	PODILI LAKSHMISARAYU			
12	-	arishma811@gmail.com	shaik karishma			
13		alaparla890@gmail.com	Venkata Aravind Kumar.V			
14		tchachinnu3@gmail.com	Patcha Jaswanth			
15	•	manu952041@gmail.com	Pachipulusu Manohar			
16	vanuk	uri.raghava@gmail.com	Raghava			
17	sha	aiksakina05@gmail.com	Shaik sameer			
18		us465249@gmail.com	S sk usman			
19	vallu.sr	inu756939@gmail.com Vallu	Srinu Siva Subrahmanyam			
20	undelachandra	obulareddy@gmail.com U	ndela Chandra Obula Reddy			
	ROLL NUMBE	ER FATH	ER NAME MOTHER NAME			
0	21KP1A44C5	Venna Ramanare	ddy Venna Lakshmidevi			
1	21KP1A4468	N.Manikya	•			
2	21KP1A4488	Rama Chandra	Rao Venkateswaramma			
3	21KP1A44D1	Yeruva Ajay Kumar r	ldy Yeruva Anjali Devi			
4	22kp5a4402	B.lakshmaia	h B.veramma			
5	21KP1A44C8	Y.Anja	niah Y Lakshmi Rajyam			
6	21KP1A4475	P.Madhava Ro	eddy P.Kavitha			
7	21KP1A4481	POLEPALLI. GURUBRAHM	IA CHARI POLEPALLI.SRIDEVI			
8	21KP1A44A9	Syed Rah	•			
9	21KP1A44B6	T.SAMBA SIV	/A RAO T.ARUNA KUMARI			
10	21KP1A44B0	Tamma krishna re	ddy Tamma Padmavathi			
11	21KP1A4480	PODILI RA				
12	21KP1A4496	SHAIK				
13	21KP1A44C0	Veeraswai	5			
14	21KP1A4477	Patcha appar				
15	21KP1A4472	Pachipulusu Prasa				
16	21KP1A44C3	Srinivasa rede	· · · · · · · · · · · · · · · · · · ·			
17	21KP1A44A3	Shaik Rahim ba	ıbu Shaik Raziya			

<del>----2</del>

18	21KP1	A4492		S sk mastan v	ali Mahabobba
19				Vallu Srinivasa R	
20	21KP1	A44B9	J	Jndela Chinna Obula Re	
(	COURSE	CGP.	A A	<b>G</b> E	BRANCH \
0	DS	8.00	19		Data science
1	<b>CSE</b>	83.00	19		CSE-DS
2	MECH	7.00	20		mech
3	CSE	9.50	20		CSE
4	DS	0.72	23		Computer science
5	DS	80.00	19		CSD
6	DS				CSD
7					Data Science
					DS
9					DATA SCIENCE
					CSE (Data science)
					DATA SCIENCE
					ds
					Data Science
					Data science
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					Data science
					DS
					DS
19	DS	73.00	20	Computer Science Engi	ineering& Data Science
20	DS	73.00 9.20	20 20	Computer Science Engi	Computer Science
20				Computer Science Engi	<del>-</del>
20	DS <b>FPUT:</b>	9.20		-	Computer Science
20 <b>OU</b> '	DS	9.20 il	20	STUDENT 1	Computer Science
20	DS <b>FPUT:</b>	9.20 il venn	20 achar	STUDENT 1 dana1@gmail.com	Computer Science
20 <b>OU</b> ' 0	DS <b>FPUT:</b>	9.20 il vennadila	20 achar kshm	STUDENT 1	Computer Science  NAME \ Venna Chandana
20 <b>OU</b> ' 0 1	DS <b>FPUT:</b> Gma	9.20  il  venn adila sravan	20 achar kshm ikuma	STUDENT 1 idana1@gmail.com i4765@gmail.com	Computer Science  NAME \ Venna Chandana N.Venkatesh
20 <b>OU</b> ' 0 1 2	DS <b>FPUT:</b> Gma	9.20  il  venn adila  sravan sandeepy	20 achar kshm ikuma yeruv	STUDENT 1 Idana1@gmail.com i4765@gmail.com Ir7156@gmail.com	Computer Science  NAME \ Venna Chandana N.Venkatesh Sravan Kumar
20 <b>OU</b> ' 0 1 2 3	DS <b>FPUT:</b> Gma	9.20  il  vennadila  sravan  sandeepy  sivaji	20 achar kshm akuma yeruva ibejja	STUDENT 1 Idana1@gmail.com i4765@gmail.com nr7156@gmail.com a1124@gmail.com	Computer Science  NAME \ Venna Chandana N.Venkatesh Sravan Kumar Yeruva sandeep reddy
20 <b>OU</b> ' 0 1 2 3 4	DS <b>FPUT:</b> Gma	9.20  il  venn adila sravan sandeepy sivaji ramyaya	20 achar kshm akuma yeruva ibejja laboli	STUDENT 1 dana1@gmail.com i4765@gmail.com ar7156@gmail.com a1124@gmail.com nki@gmail.com	Computer Science  NAME \ Venna Chandana N.Venkatesh Sravan Kumar Yeruva sandeep reddy B.sivaji
20 <b>OU</b> ' 0 1 2 3 4 5 6 7	DS <b>FPUT:</b> Gma	9.20  il vennadila sravan sandeepy sivaji ramyaya charithar	achar kshm ikuma yeruva ibejja labola reddy	STUDENT Madana1@gmail.com i4765@gmail.com nr7156@gmail.com a1124@gmail.com nki@gmail.com u123r@gmail.com	Computer Science  NAME \ Venna Chandana N.Venkatesh Sravan Kumar Yeruva sandeep reddy B.sivaji Y.Ramya P.charitha reddy POLEPALLI. GAYATHRI
20 <b>OU</b> ' 0 1 2 3 4 5 6	DS <b>FPUT:</b> Gma	9.20  il vennadilal sravan sandeepy sivaji ramyaya charithar yathripol	achar kshm kuma yeruv; ibejja laboli eddy; lepall	STUDENT Madana1@gmail.com i4765@gmail.com ar7156@gmail.com a1124@gmail.com nki@gmail.com u123r@gmail.com 3914@gmail.com	Computer Science  NAME \  Venna Chandana  N.Venkatesh  Sravan Kumar  Yeruva sandeep reddy  B.sivaji  Y.Ramya  P.charitha reddy  POLEPALLI. GAYATHRI  Syed Tasleem Afroze
20 <b>OU</b> ' 0 1 2 3 4 5 6 7 8 9	DS <b>FPUT:</b> Gma	9.20  il vennadila sravan sandeepy sivaji ramyaya charithar yathripol syec sowjai	achar kshm kuma yeruva ibejja labola reddy lepall dtasle nyath	STUDENT Madana1@gmail.com i4765@gmail.com ar7156@gmail.com a1124@gmail.com nki@gmail.com a123r@gmail.com a1914@gmail.com i70@gmail.com em07@gmail.com ota11@gmail.com	Computer Science  Venna Chandana N.Venkatesh Sravan Kumar Yeruva sandeep reddy B.sivaji Y.Ramya P.charitha reddy POLEPALLI. GAYATHRI Syed Tasleem Afroze T.SOWJANYA
20 OU' 0 1 2 3 4 5 6 7 8 9 10	DS <b>FPUT:</b> Gma	9.20  il vennadilal sravan sandeepy sivaji ramyaya charithar yathripol syec sowjan tam	achar kshm kshm kuma yeruva ibejja labolu eddya lepall dtasle myath imasa	STUDENT 1 Idana1@gmail.com i4765@gmail.com ar7156@gmail.com a1124@gmail.com nki@gmail.com a123r@gmail.com i70@gmail.com em07@gmail.com ota11@gmail.com hithi1@gmail.com	Computer Science  NAME \  Venna Chandana  N.Venkatesh  Sravan Kumar  Yeruva sandeep reddy  B.sivaji  Y.Ramya  P.charitha reddy  POLEPALLI. GAYATHRI  Syed Tasleem Afroze  T.SOWJANYA  Tamma Sahithi
20 <b>OU</b> ' 0 1 2 3 4 5 6 7 8 9 10 11	DS <b>FPUT:</b> Gma	9.20  il  vennadila sravan sandeepy sivaji ramyaya charithar yathripol syec sowjai tam pod	achar kshm kuma yeruva ibejja labolu eddy lepall dtasle nyath imasa lilisara	STUDENT 1 Idana1@gmail.com i4765@gmail.com i47156@gmail.com i4124@gmail.com i4123r@gmail.com i4123r@gmail.com i40@gmail.com i670@gmail.com i670@gmail.com i6411@gmail.com i6411@gmail.com i6411@gmail.com i6411@gmail.com i6411@gmail.com	Computer Science  NAME \  Venna Chandana  N.Venkatesh  Sravan Kumar  Yeruva sandeep reddy  B.sivaji  Y.Ramya  P.charitha reddy  POLEPALLI. GAYATHRI  Syed Tasleem Afroze  T.SOWJANYA  Tamma Sahithi  PODILI LAKSHMISARAYU
20 <b>OU</b> ' 0 1 2 3 4 4 5 6 6 7 8 9 10 11 12	DS <b>FPUT:</b> Gma	9.20  il venn adila sravan sandeepy sivaji ramyaya charithar yathripol syec sowjan tam pod shaikka	achar kshm kuma yeruva ibejja labola reddya lepalla dtasle nyatha masa ilisara	STUDENT Madana1@gmail.com i4765@gmail.com ar7156@gmail.com a1124@gmail.com nki@gmail.com a123r@gmail.com a914@gmail.com i70@gmail.com em07@gmail.com ota11@gmail.com hithi1@gmail.com ayu6@gmail.com ayu6@gmail.com	Computer Science  Venna Chandana N.Venkatesh Sravan Kumar Yeruva sandeep reddy B.sivaji Y.Ramya P.charitha reddy POLEPALLI. GAYATHRI Syed Tasleem Afroze T.SOWJANYA Tamma Sahithi PODILI LAKSHMISARAYU shaik karishma
20 <b>OU</b> ' 0 1 2 3 4 4 5 6 6 7 8 9 10 11 12 13	DS <b>FPUT:</b> Gma	9.20  il vennadilal sravan sandeepy sivaji ramyaya charithar yathripol syec sowjan tam pod shaikka	achar kshmakuma yeruva ibejja labola eddyale lepalla dtasle myatha masa lilisara lisara	STUDENT Manal @gmail.com i4765@gmail.com i4765@gmail.com i4124@gmail.com i4123r@gmail.com i423r@gmail.com i40@gmail.com i40@gmail.com i40@gmail.com i40@gmail.com i40@gmail.com i411@gmail.com i411@gmail.com i4811@gmail.com i4890@gmail.com	Computer Science  NAME \  Venna Chandana  N.Venkatesh  Sravan Kumar  Yeruva sandeep reddy  B.sivaji  Y.Ramya  P.charitha reddy  POLEPALLI. GAYATHRI  Syed Tasleem Afroze  T.SOWJANYA  Tamma Sahithi  PODILI LAKSHMISARAYU  shaik karishma  Venkata Aravind Kumar.V
20 <b>OU</b> ' 0 1 2 3 4 4 5 5 6 6 7 8 8 9 10 11 12 13 14	DS <b>FPUT:</b> Gma	9.20  il vennadila sravan sandeepy sivaji ramyaya charithar yathripol syec sowjan tam pod shaikka kumarva	achar kshmakuma yeruva ibejja labola eddy lepalla dtasle nyatha masa lilisara rishmalapara	STUDENT 1 Idana1@gmail.com i4765@gmail.com i47156@gmail.com ia1124@gmail.com ia123r@gmail.com i3914@gmail.com i70@gmail.com iem07@gmail.com iota11@gmail.com ihithi1@gmail.com ia811@gmail.com ia890@gmail.com ia890@gmail.com innu3@gmail.com	Computer Science  Venna Chandana N.Venkatesh Sravan Kumar Yeruva sandeep reddy B.sivaji Y.Ramya P.charitha reddy POLEPALLI. GAYATHRI Syed Tasleem Afroze T.SOWJANYA Tamma Sahithi PODILI LAKSHMISARAYU shaik karishma Venkata Aravind Kumar.V Patcha Jaswanth
20 <b>OU</b> ' 0 1 2 3 4 4 5 6 6 7 8 9 10 11 12 13 14 15	DS <b>FPUT:</b> Gma	il vennadila sravan sandeepy sivaji ramyaya charithar yathripol syec sowjan tam pod shaikka kumarva	achar kshm kuma yeruva ibejja labola eddya lepalla dtasle myathamasa ilisara rishmalapar chachanu	STUDENT Madana1@gmail.com i4765@gmail.com i4765@gmail.com i4124@gmail.com i423r@gmail.com i423r@gmail.com i423r@gmail.com i40@gmail.com i670@gmail.com i670@gmail.com i6411@gmail.com i6411@gmail.com i6411@gmail.com i6490@gmail.com i64890@gmail.com i6490@gmail.com i6490@gmail.com i6490@gmail.com i6490@gmail.com i6490@gmail.com	Computer Science  Venna Chandana N.Venkatesh Sravan Kumar Yeruva sandeep reddy B.sivaji Y.Ramya P.charitha reddy POLEPALLI. GAYATHRI Syed Tasleem Afroze T.SOWJANYA Tamma Sahithi PODILI LAKSHMISARAYU shaik karishma Venkata Aravind Kumar.V Patcha Jaswanth Pachipulusu Manohar
20 <b>OU</b> ' 0 1 2 3 4 4 5 5 6 6 7 8 9 10 11 12 13 14 15 16	DS <b>FPUT:</b> Gma	il venn adila sravan sandeepy sivaji ramyaya charithar yathripol syec sowjan tam pod shaikka kumarva pato	achar kshmakuma yeruva ibejja labola reddy lepalla dtasle nyatha masa lilisara irishmalapara chach manu ri.rag	STUDENT Madana1@gmail.com i4765@gmail.com i4765@gmail.com i47156@gmail.com i4124@gmail.com i423r@gmail.com i423r@gmail.com i40@gmail.com i670@gmail.com i670@gmail.com i6411@gmail.com i6411@gmail.com i6411@gmail.com i64890@gmail.com	Computer Science  NAME \  Venna Chandana N.Venkatesh Sravan Kumar Yeruva sandeep reddy B.sivaji Y.Ramya P.charitha reddy POLEPALLI. GAYATHRI Syed Tasleem Afroze T.SOWJANYA Tamma Sahithi PODILI LAKSHMISARAYU shaik karishma Venkata Aravind Kumar.V Patcha Jaswanth Pachipulusu Manohar Raghava
20 <b>OU</b> ' 0 1 2 3 4 4 5 6 6 7 8 9 10 11 12 13 14 15 16 17	DS <b>FPUT:</b> Gma	il venn adila sravan sandeepy sivaji ramyaya charithar yathripol syec sowjan tam pod shaikka kumarva pato	achar kshmakuma yeruva ibejja labola labola eddy lepalla dtasle myathamasa lilisara rishmalapara chacha manu ri.rag iksaki	STUDENT Madana1@gmail.com i4765@gmail.com i4765@gmail.com i4124@gmail.com i4123r@gmail.com i4123r@gmail.com i410@gmail.com i410@gmail.com i410@gmail.com i410@gmail.com i411@gmail.com i411@gmail.com i411@gmail.com i4890@gmail.com	Computer Science  Venna Chandana N.Venkatesh Sravan Kumar Yeruva sandeep reddy B.sivaji Y.Ramya P.charitha reddy POLEPALLI. GAYATHRI Syed Tasleem Afroze T.SOWJANYA Tamma Sahithi PODILI LAKSHMISARAYU shaik karishma Venkata Aravind Kumar.V Patcha Jaswanth Pachipulusu Manohar Raghava Shaik sameer
20 <b>OU</b> ' 0 1 2 3 4 4 5 6 6 7 8 9 10 11 12 13 14 15 16 17 18	DS <b>FPUT:</b> Gma	il vennadila sravan sandeepy sivaji ramyaya charithar yathripol syec sowjan tam pod shaikka kumarva pato	achar kshm kuma yeruva ibejja labola eddya lepalla dtasle nyathamasa ilisara rishmasa lapara chachamanu ri.rag iksaki	STUDENT Madana1@gmail.com i4765@gmail.com i4765@gmail.com i4124@gmail.com i423r@gmail.com i423r@gmail.com i40@gmail.com i60@gmail.com i60@gmail.com i60@gmail.com i61@gmail.com i61@gmail.com i61@gmail.com i61@gmail.com i61@gmail.com i681@gmail.com i6890@gmail.com i6890@gmail.com i6890@gmail.com i6890@gmail.com i6890@gmail.com i65241@gmail.com i65249@gmail.com	Computer Science  Venna Chandana N.Venkatesh Sravan Kumar Yeruva sandeep reddy B.sivaji Y.Ramya P.charitha reddy POLEPALLI. GAYATHRI Syed Tasleem Afroze T.SOWJANYA Tamma Sahithi PODILI LAKSHMISARAYU shaik karishma Venkata Aravind Kumar.V Patcha Jaswanth Pachipulusu Manohar Raghava Shaik sameer S sk usman
20 <b>OU</b> ' 0 1 2 3 4 4 5 6 6 7 8 9 10 11 12 13 14 15 16 17	DS <b>FPUT:</b> Gma	il venn adila sravan sandeepy sivaji ramyaya charithar yathripol syec sowjan tam pod shaikka kumarva patc vanuku shai	achar kshmakuma yeruva ibejja labola reddy lepalla dtasle nyatha masa lilisara lilisara lilisara irishmanu ri.rag iksaki usa nu756	STUDENT Madana1@gmail.com i4765@gmail.com i4765@gmail.com i47156@gmail.com i4124@gmail.com i423r@gmail.com i423r@gmail.com i40@gmail.com i40@gmail.com i40@gmail.com i401@gmail.com i4811@gmail.com i4890@gmail.com	Computer Science  Venna Chandana N.Venkatesh Sravan Kumar Yeruva sandeep reddy B.sivaji Y.Ramya P.charitha reddy POLEPALLI. GAYATHRI Syed Tasleem Afroze T.SOWJANYA Tamma Sahithi PODILI LAKSHMISARAYU shaik karishma Venkata Aravind Kumar.V Patcha Jaswanth Pachipulusu Manohar Raghava Shaik sameer
	19 20 0 11 22 33 44 55 66 77 88 99 110 111 112 113 114 115 116 117 118	19 21KP1A 20 21KP1A COURSE 0 DS 1 CSE 2 MECH 3 CSE 4 DS 5 DS 6 DS 7 DS 8 MECH 9 DS 10 DS 11 DS 12 DS 13 DS 14 CSE 15 MECH 16 DS 17 DS	19 21KP1A44C1 20 21KP1A44B9     COURSE	19 21KP1A44C1 20 21KP1A44B9 U COURSE CGPA A 0 DS 8.00 19 1 CSE 83.00 19 2 MECH 7.00 20 3 CSE 9.50 20 4 DS 0.72 23 5 DS 80.00 19 6 DS 70.00 19 7 DS 10.00 19 8 MECH 8.00 19 10 DS 7.70 19 11 DS 7.50 19 12 DS 9.00 19 13 DS 0.98 20 14 CSE 0.99 20 15 MECH 8.50 19 16 DS 7.00 19 17 DS 80.00 20 18 DS 50.00 19	19 21KP1A44C1

<del>2</del>5

	ROLL NUMB	BER	FATHER NAM	E MOTHER NAME \
0	21KP1A44C5	5	Venna Ramanareddy	Venna Lakshmidevi
1	21KP1A4468		N.Manikya Rao	N.Sri Lakshmi
2	21KP1A4488		Rama Chandra Rao	Venkateswaramma
3	21KP1A44D1	1 }	Yeruva Ajay Kumar reddy	Yeruva Anjali Devi
4	22kp5a4402		B.lakshmaiah	B.veramma
5	21KP1A44C8	}	Y.Anjaiah	Y Lakshmi Rajyam
6	21KP1A4475		P.Madhava Reddy	P.Kavitha
7	21KP1A4481	POLEP	ALLI. GURUBRAHMA CHAR	I POLEPALLI.SRIDEVI
8	21KP1A44A9	)	Syed Rahiman	Syed Naseema
9	21KP1A44B6	5	T.SAMBA SIVA RAO	T.ARUNA KUMARI
10	21KP1A44B0	)	Tamma krishna reddy	Tamma Padmavathi
11	21KP1A4480		PODILI RAMESH	PODILI ADILAKSHMI
12	21KP1A4496		SHAIK BAJI	SHAIK KHADRUN
13	21KP1A44C0		Veeraswamy.v	Lakshmi.v
14	21KP1A4477		Patcha apparao	Patcha sukanya
15	21KP1A4472		<del>-</del>	Pachipulusu Bhavani
16	21KP1A44C3		Srinivasa reddy	Jyothi
17	21KP1A44A3		Shaik Rahim babu	Shaik Raziya
18	21KP1A4492	,	S sk mastan vali	Mahabobba
19	21KP1A44C1		Vallu Srinivasa Rao	Vallu Surya kumari
20	21KP1A44B9	) Unc	lela Chinna Obula Reddy	Undela GuruLakshmi
	COURSE C	CGPA AC		BRANCH
0	DS COOKSE C	8 19	JE	Data science
1		83 19		CSE-DS
2		7 20		mech
3		.5 20		CSE
4		72 23		Computer science
5	DS 80			CSD
6	DS 70			CSD
7	DS 10			Data Science
8	MECH 8	19		DS
9	DS 8	19		DATA SCIENCE
10	DS 7.7	19	CSE	(Data science)
11	DS 7.5	19		DATA SCIENCE
12	DS 9	19		ds
13	DS 0.98	3 20		Data Science
14	CSE 0.99	20		Data science
15	MECH 8.5			19
16	DS 7	19		Data science
17	DS 80	20		DS
18	DS 50	19		DS
19	DS 73		omputer Science Engineering&	
20	DS 9.2	20	Con	nputer Science
				•
				•

SEMISTER

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2-2

AADHAAR NO

636336922883

1	II-II 602515258256	
2	4 930319053088	
3	2-3 576154990146	
4	2-2 895444662410	
5	2-2 724574588425	
6	2.2 810177524502	
7	2-2 721819168061	
8	2-2 617020354793	
9	2-2 338666948901	
10	2-2 685349832128	
11	2-2 458689741091	
12	2-2 663048521599	
13	2-2 510305345824	
14	2-2 744020413963	
15	2-2 559366114423	
16	2-2 424973081348	
17	2-2 529261464345	
18	2-2 568753875709	
19	4 ********	
20	2-2 693621780842	
	Gmail	STUDENT NAME \
0	vennachandana1@gmail.com	Venna Chandana
$\frac{1}{2}$	adilakshmi4765@gmail.com	N.Venkatesh
$\frac{2}{2}$	sravankumar7156@gmail.com	Sravan Kumar
3	sandeepyeruva1124@gmail.com	Yeruva sandeep reddy
4 5	sivajibejjanki@gmail.com	B.sivaji V Pomyo
6	ramyayalabolu123r@gmail.com charithareddy3914@gmail.com	Y.Ramya P.charitha reddy
7	gayathripolepalli70@gmail.com	POLEPALLI. GAYATHRI
8	syedtasleem07@gmail.com	Syed Tasleem Afroze
9	sowjanyathota11@gmail.com	T.SOWJANYA
10	tammasahithi1@gmail.com	Tamma Sahithi
11	podilisarayu6@gmail.com	PODILI LAKSHMISARAYU
12	shaikkarishma811@gmail.com	shaik karishma
13	kumarvalaparla890@gmail.com	Venkata Aravind Kumar.V
14	patchachinnu3@gmail.com	Patcha Jaswanth
15	manu952041@gmail.com	Pachipulusu Manohar
16	vanukuri.raghava@gmail.com	Raghava
17	shaiksakina05@gmail.com	Shaik sameer
18	us465249@gmail.com	S sk usman
19		allu Srinu Siva Subrahmanyam
20	undelachandraobulareddy@gmail.com	Undela Chandra Obula Reddy
	OD OGDED	
	SEMISTER AADHAAR NO	
$\begin{bmatrix} 0 \\ 1 \end{bmatrix}$	2-2 636336922883	
$\begin{vmatrix} 1 \\ 2 \end{vmatrix}$	II-II 602515258256	
3	4 930319053088 2-3 576154990146	
4	2-3 376134990146 2-2 895444662410	
	/_ / XU3/1/1/166 //1111	

\_\_\_\_\_\_

```
5
             2-2
                    724574588425
6
             2.2
                    810177524502
7
             2-2
                    721819168061
8
             2-2
                    617020354793
9
             2-2
                    338666948901
10
             2-2
                    685349832128
11
             2-2
                    458689741091
12
             2-2
                    663048521599
13
             2-2
                    510305345824
14
             2-2
                    744020413963
15
             2-2
                    559366114423
             2-2
16
                    424973081348
17
             2-2
                    529261464345
18
             2-2
                    568753875709
                     ******
19
               4
20
             2-2
                    693621780842
```

```
df.replace({'70':70},inplace=True)
print(df)
```

<del>----2</del>

## **OUTPUT:**

		Gmail	STUD	DENT NAME \					
0	venn	achandana1@gmail.com		Venna Chandana					
1		kshmi4765@gmail.com		N. Venkatesh					
2		kumar7156@gmail.com		Sravan Kumar					
3		veruva1124@gmail.com	Ve	eruva sandeep reddy					
4		ibejjanki@gmail.com	1	B.sivaji					
5	•	labolu123r@gmail.com	Y.Ramya						
6		reddy3914@gmail.com		P.charitha reddy					
7		epalli70@gmail.com	POLI	EPALLI. GAYATHRI					
8	~ .	dtasleem07@gmail.com		Syed Tasleem Afroze					
9		nyathota11@gmail.com	٥	T.SOWJANYA					
10	•	masahithi1@gmail.com		Tamma Sahithi					
11		ilisarayu6@gmail.com	PO	DILI LAKSHMISARAYU					
12	-	rishma811@gmail.com	101	shaik karishma					
13		laparla890@gmail.com	Venkata	a Aravind Kumar.V					
14		chachinnu3@gmail.com	Volimate	Patcha Jaswanth					
15	-	manu952041@gmail.con	1	Pachipulusu Manohar					
16		ri.raghava@gmail.com	-	Raghava					
17		iksakina05@gmail.com		Shaik sameer					
18		us465249@gmail.com		S sk usman					
19	vallu.srir	nu756939@gmail.com		va Subrahmanyam					
20		bulareddy@gmail.com		ndra Obula Reddy					
	ROLL NUMBER		FATHER NAM	<del>-</del>	\				
0	21VD1 A 44C5	V D	anaraddy	77 7 1 1 1 1					
	21KP1A44C5	Venna Ram	anareddy	Venna Lakshmidevi					
1	21KP1A44C3 21KP1A4468		nikya Rao	Venna Lakshmidevi N.Sri Lakshmi					
1 .		N.Mar	-						
1	21KP1A4468	N.Mar	nikya Rao andra Rao	N.Sri Lakshmi					
1 2	21KP1A4468 21KP1A4488	N.Mar Rama Cha Yeruva Ajay Kur	nikya Rao andra Rao	N.Sri Lakshmi Venkateswaramma					
1 2 3	21KP1A4468 21KP1A4488 21KP1A44D1	N.Mar Rama Cha Yeruva Ajay Kur B.laksl	nikya Rao andra Rao mar reddy	N.Sri Lakshmi Venkateswaramma Yeruva Anjali Devi					
1 2 3 4	21KP1A4468 21KP1A4488 21KP1A44D1 22kp5a4402	N.Mar Rama Cha Yeruva Ajay Kur B.laksl	nikya Rao andra Rao nar reddy hmaiah	N.Sri Lakshmi Venkateswaramma Yeruva Anjali Devi B.veramma					
1 2 3 4 5	21KP1A4468 21KP1A4488 21KP1A44D1 22kp5a4402 21KP1A44C8 21KP1A4475	N.Mar Rama Cha Yeruva Ajay Kur B.laksl	nikya Rao andra Rao mar reddy hmaiah 7.Anjaiah va Reddy	N.Sri Lakshmi Venkateswaramma Yeruva Anjali Devi B.veramma Y Lakshmi Rajyam P.Kavitha					
1 2 3 4 5 6 7 8	21KP1A4468 21KP1A4488 21KP1A44D1 22kp5a4402 21KP1A44C8 21KP1A4475	N.Mar Rama Cha Yeruva Ajay Kur B.laksl Y P.Madha POLEPALLI. GURUBR Syed	nikya Rao andra Rao mar reddy hmaiah 7.Anjaiah va Reddy AHMA CHAR	N.Sri Lakshmi Venkateswaramma Yeruva Anjali Devi B.veramma Y Lakshmi Rajyam P.Kavitha POLEPALLI.SRIDEVI Syed Naseema					
1 2 3 4 5 6 7	21KP1A4468 21KP1A4488 21KP1A44D1 22kp5a4402 21KP1A44C8 21KP1A4475 21KP1A4481	N.Mar Rama Cha Yeruva Ajay Kur B.laksl Y P.Madha POLEPALLI. GURUBR Syed	nikya Rao andra Rao nar reddy hmaiah 7.Anjaiah va Reddy AHMA CHAR	N.Sri Lakshmi Venkateswaramma Yeruva Anjali Devi B.veramma Y Lakshmi Rajyam P.Kavitha POLEPALLI.SRIDEVI Syed Naseema T.ARUNA KUMARI					
1 2 3 4 5 6 7 8 9 10	21KP1A4468 21KP1A4488 21KP1A44D1 22kp5a4402 21KP1A44C8 21KP1A4475 21KP1A4481 21KP1A44A9 21KP1A44B6 21KP1A44B0	N.Mar Rama Cha Yeruva Ajay Kur B.laksl Y P.Madha POLEPALLI. GURUBR Syed T.SAMBA Tamma krish	nikya Rao andra Rao mar reddy hmaiah 7.Anjaiah va Reddy AHMA CHAR I Rahiman A SIVA RAO	N.Sri Lakshmi Venkateswaramma Yeruva Anjali Devi B.veramma Y Lakshmi Rajyam P.Kavitha POLEPALLI.SRIDEVI Syed Naseema T.ARUNA KUMARI Tamma Padmavathi					
1 2 3 4 5 6 7 8 9 10	21KP1A4468 21KP1A4488 21KP1A44D1 22kp5a4402 21KP1A44C8 21KP1A4475 21KP1A4481 21KP1A44A9 21KP1A44B6 21KP1A44B0 21KP1A44B0	N.Mar Rama Cha Yeruva Ajay Kur B.laksl Y P.Madha POLEPALLI. GURUBR Syed T.SAMBA Tamma krish PODII	nikya Rao andra Rao mar reddy hmaiah 7.Anjaiah va Reddy AHMA CHAR I Rahiman A SIVA RAO ma reddy LI RAMESH	N.Sri Lakshmi Venkateswaramma Yeruva Anjali Devi B.veramma Y Lakshmi Rajyam P.Kavitha POLEPALLI.SRIDEVI Syed Naseema T.ARUNA KUMARI Tamma Padmavathi PODILI ADILAKSHMI					
1 2 3 4 5 6 7 8 9 10 11 12	21KP1A4468 21KP1A4488 21KP1A44D1 22kp5a4402 21KP1A44C8 21KP1A4475 21KP1A4481 21KP1A44A9 21KP1A44B6 21KP1A44B0 21KP1A4480 21KP1A4496	N.Mar Rama Cha Yeruva Ajay Kur B.laksl P.Madha POLEPALLI. GURUBR Syed T.SAMBA Tamma krish PODII	nikya Rao andra Rao mar reddy hmaiah 7.Anjaiah va Reddy AHMA CHAR I Rahiman A SIVA RAO ma reddy LI RAMESH IAIK BAJI	N.Sri Lakshmi Venkateswaramma Yeruva Anjali Devi B.veramma Y Lakshmi Rajyam P.Kavitha POLEPALLI.SRIDEVI Syed Naseema T.ARUNA KUMARI Tamma Padmavathi PODILI ADILAKSHMI SHAIK KHADRUN					
1 2 3 4 5 6 7 8 9 10 11 12 13	21KP1A4468 21KP1A4488 21KP1A44D1 22kp5a4402 21KP1A44C8 21KP1A4475 21KP1A4481 21KP1A44A9 21KP1A44B6 21KP1A44B0 21KP1A44B0 21KP1A4496 21KP1A44C0	N.Mar Rama Cha Yeruva Ajay Kur B.laksl Y P.Madha POLEPALLI. GURUBR Syed T.SAMBA Tamma krish PODII SH	nikya Rao andra Rao mar reddy hmaiah 7. Anjaiah va Reddy AAHMA CHAR I Rahiman A SIVA RAO ana reddy LI RAMESH IAIK BAJI aswamy.v	N.Sri Lakshmi Venkateswaramma Yeruva Anjali Devi B.veramma Y Lakshmi Rajyam P.Kavitha POLEPALLI.SRIDEVI Syed Naseema T.ARUNA KUMARI Tamma Padmavathi PODILI ADILAKSHMI SHAIK KHADRUN Lakshmi.v					
1 2 3 4 5 6 7 8 9 10 11 12 13 14	21KP1A4468 21KP1A4488 21KP1A44D1 22kp5a4402 21KP1A44C8 21KP1A4475 21KP1A4481 21KP1A44A9 21KP1A44B6 21KP1A44B0 21KP1A44B0 21KP1A44C0 21KP1A44C0 21KP1A44C0	N.Mar Rama Cha Yeruva Ajay Kur B.laksl Y P.Madha POLEPALLI. GURUBR Syed T.SAMBA Tamma krish PODII SH Veer Patcha	nikya Rao andra Rao mar reddy hmaiah Y.Anjaiah va Reddy AHMA CHAR I Rahiman A SIVA RAO ma reddy LI RAMESH IAIK BAJI aswamy.v apparao	N.Sri Lakshmi Venkateswaramma Yeruva Anjali Devi B.veramma Y Lakshmi Rajyam P.Kavitha POLEPALLI.SRIDEVI Syed Naseema T.ARUNA KUMARI Tamma Padmavathi PODILI ADILAKSHMI SHAIK KHADRUN Lakshmi.v Patcha sukanya					
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	21KP1A4468 21KP1A4488 21KP1A44D1 22kp5a4402 21KP1A44C8 21KP1A4475 21KP1A4481 21KP1A44A9 21KP1A44B6 21KP1A44B0 21KP1A44B0 21KP1A4470 21KP1A4477 21KP1A4477	N.Mar Rama Cha Yeruva Ajay Kur B.laksl Y P.Madha POLEPALLI. GURUBR Syed T.SAMBA Tamma krish PODII SH Veer Patcha Pachipulusu	nikya Rao andra Rao mar reddy hmaiah Y.Anjaiah va Reddy AHMA CHAR I Rahiman A SIVA RAO ana reddy LI RAMESH IAIK BAJI aswamy.v apparao Prasad	N.Sri Lakshmi Venkateswaramma Yeruva Anjali Devi B.veramma Y Lakshmi Rajyam P.Kavitha POLEPALLI.SRIDEVI Syed Naseema T.ARUNA KUMARI Tamma Padmavathi PODILI ADILAKSHMI SHAIK KHADRUN Lakshmi.v Patcha sukanya Pachipulusu Bhavani					
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	21KP1A4468 21KP1A4488 21KP1A44D1 22kp5a4402 21KP1A44C8 21KP1A4475 21KP1A4481 21KP1A44A9 21KP1A44B6 21KP1A44B0 21KP1A44B0 21KP1A4470 21KP1A4477 21KP1A4477 21KP1A4472 21KP1A4472	N.Mar Rama Cha Yeruva Ajay Kur B.laksl Y P.Madha POLEPALLI. GURUBR Syed T.SAMBA Tamma krish PODII SH Veer Patcha Pachipulusu Srinivasa	nikya Rao andra Rao mar reddy hmaiah Y.Anjaiah va Reddy AHMA CHAR I Rahiman A SIVA RAO ma reddy LI RAMESH IAIK BAJI aswamy.v apparao Prasad a reddy	N.Sri Lakshmi Venkateswaramma Yeruva Anjali Devi B.veramma Y Lakshmi Rajyam P.Kavitha POLEPALLI.SRIDEVI Syed Naseema T.ARUNA KUMARI Tamma Padmavathi PODILI ADILAKSHMI SHAIK KHADRUN Lakshmi.v Patcha sukanya Pachipulusu Bhavani Jyothi					
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	21KP1A4468 21KP1A4488 21KP1A44D1 22kp5a4402 21KP1A44C8 21KP1A4475 21KP1A4481 21KP1A44A9 21KP1A44B6 21KP1A44B0 21KP1A44B0 21KP1A44C0 21KP1A44C0 21KP1A44C0 21KP1A44C0 21KP1A44C3 21KP1A44C3 21KP1A44C3	N.Mar Rama Cha Yeruva Ajay Kur B.laksl Y P.Madha POLEPALLI. GURUBR Syed T.SAMBA Tamma krish PODII SH Veer Patcha Pachipulusu Srinivasa Shaik Rah	nikya Rao andra Rao mar reddy hmaiah Y.Anjaiah va Reddy AHMA CHAR I Rahiman A SIVA RAO ma reddy LI RAMESH IAIK BAJI aswamy.v apparao Prasad a reddy im babu	N.Sri Lakshmi Venkateswaramma Yeruva Anjali Devi B.veramma Y Lakshmi Rajyam P.Kavitha I POLEPALLI.SRIDEVI Syed Naseema T.ARUNA KUMARI Tamma Padmavathi PODILI ADILAKSHMI SHAIK KHADRUN Lakshmi.v Patcha sukanya Pachipulusu Bhavani Jyothi Shaik Raziya					
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	21KP1A4468 21KP1A4488 21KP1A44D1 22kp5a4402 21KP1A44C8 21KP1A4475 21KP1A4481 21KP1A44A9 21KP1A44B0 21KP1A44B0 21KP1A44B0 21KP1A44C0 21KP1A44C0 21KP1A44C0 21KP1A4472 21KP1A4472 21KP1A44C3 21KP1A44C3	N.Mar Rama Cha Yeruva Ajay Kur B.laksl Y P.Madha POLEPALLI. GURUBR Syed T.SAMBA Tamma krish PODII SH Veer Patcha Pachipulusu Srinivasa Shaik Rah S sk mas	nikya Rao andra Rao mar reddy hmaiah Y.Anjaiah va Reddy AHMA CHAR I Rahiman A SIVA RAO ana reddy LI RAMESH IAIK BAJI aswamy.v apparao Prasad a reddy im babu tan vali	N.Sri Lakshmi Venkateswaramma Yeruva Anjali Devi B.veramma Y Lakshmi Rajyam P.Kavitha POLEPALLI.SRIDEVI Syed Naseema T.ARUNA KUMARI Tamma Padmavathi PODILI ADILAKSHMI SHAIK KHADRUN Lakshmi.v Patcha sukanya Pachipulusu Bhavani Jyothi Shaik Raziya Mahabobba					
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	21KP1A4468 21KP1A4488 21KP1A44D1 22kp5a4402 21KP1A44C8 21KP1A4475 21KP1A4481 21KP1A44A9 21KP1A44B6 21KP1A44B0 21KP1A44B0 21KP1A44C0 21KP1A44C0 21KP1A44C0 21KP1A44C0 21KP1A44C3 21KP1A44C3 21KP1A44C3	N.Mar Rama Cha Yeruva Ajay Kur B.laksl Y P.Madha POLEPALLI. GURUBR Syed T.SAMBA Tamma krish PODII SH Veer Patcha Pachipulusu Srinivasa Shaik Rah	nikya Rao andra Rao mar reddy hmaiah Y.Anjaiah va Reddy AHMA CHAR I Rahiman A SIVA RAO ma reddy LI RAMESH IAIK BAJI maswamy.v apparao Prasad a reddy im babu tan vali msa Rao	N.Sri Lakshmi Venkateswaramma Yeruva Anjali Devi B.veramma Y Lakshmi Rajyam P.Kavitha I POLEPALLI.SRIDEVI Syed Naseema T.ARUNA KUMARI Tamma Padmavathi PODILI ADILAKSHMI SHAIK KHADRUN Lakshmi.v Patcha sukanya Pachipulusu Bhavani Jyothi Shaik Raziya					

#### df.info()

#### **OUTPUT:**

<class 'pandas.core.frame.DataFrame'> RangeIndex: 52 entries, 0 to 51 Data columns (total 11 columns):

#	Column	Non-Null Count	Dtype
0	Gmail 5	52 non-null	object
1	STUDENT NAM	E 52 non-null	object
2	ROLL NUMBER	52 non-null	object
3	FATHER NAME	52 non-null	object
4	MOTHER NAMI	E 52 non-null	object
5	COURSE	52 non-null	object
6	CGPA	52 non-null	float64
7	AGE	52 non-null	object
8	BRANCH	52 non-null	object
9	SEMISTER	52 non-null	object
10	AADHAAR NO	52 non-null	object
dtyne	s: float64(1) obje	oct(10)	

dtypes: float64(1), object(10) memory usage: 4.6+ KB

#filtering the data who got less than or greater than 60% and
arranging those students in ascending order
cgpa=df[(df["CGPA"]>8.0)]
cgpa

#### **OUTPUT:**

G m ail	STUDENT NAME	ROLL NUMB ER	FAT HER NAM E	MOTHER NAME	COURSE	C G PA	A G E	BR AN CH	SEMI STER	AAD HAA R NO	
1	adilakshmi4765@ gmail.com	N.Venk atesh	21KP 1A44 68	N.Manikya Rao	N.Sri Lakshmi	CS E	83	19	CSE- DS	II-II	60251 52582 56
3	sandeepyeruva11 24@gmail.com	Yeruva sandeep reddy	21KP 1A44 D1	Yeruva Ajay Kumar reddy	Yeruva Anjali Devi	CS E	9. 5	20	CSE	2-3	57615 49901 46
5	ramyayalabolu12	Y.Ramy	21KP	Y.Anjaiah	Y Lakshmi	DS	80	19	CSD	2-2	72457

G m ail	STUDENT NAME	ROLL NUMB ER	FAT HER NAM E	MOTHER NAME	COURSE	C G PA	A G E	BR AN CH	SEMI STER	AAD HAA R NO	
	3r@gmail.com	a	1A44 C8		Rajyam		.0				45884 25
6	charithareddy391 4@gmail.com	P.charit ha reddy	21KP 1A44 75	P.Madhava Reddy	P.Kavitha	DS	70 .0	19	CSD	2.2	81017 75245 02
7	gayathripolepalli7 0@gmail.com	POLEP ALLI. GAYA THRI	21KP 1A44 81	POLEPALL I. GURUBRA HMA CHARI	POLEPAL LI.SRIDE VI	DS	10	19	Data Scienc e	2-2	72181 91680 61
12	shaikkarishma811 @gmail.com	shaik karishm a	21KP 1A44 96	SHAIK BAJI	SHAIK KHADRU N	DS	9. 0	19	ds	2-2	66304 85215 99
15	manu952041@g mail.com	Pachipu lusu Manoha r	21KP 1A44 72	Pachipulusu Prasad	Pachipulus u Bhavani	M EC H	8. 5	19	19	2-2	55936 61144 23
17	shaiksakina05@g mail.com	Shaik sameer	21KP 1A44 A3	Shaik Rahim babu	Shaik Raziya	DS	80 .0	20	DS	2-2	52926 14643 45
18	us465249@gmail. com	S sk usman	21KP 1A44 92	S sk mastan vali	Mahabobb a	DS	50	19	DS	2-2	56875 38757 09
19	vallu.srinu756939 @gmail.com	Vallu Srinu Siva Subrah manya m	21KP 1A44 C1	Vallu Srinivasa Rao	Vallu Surya kumari	DS	73 .0	20	Comp uter Scienc e Engin eering & Data Scienc e	4	**** **** **
20	undelachandraobu lareddy@gmail.c om	Undela Chandra Obula Reddy	21KP 1A44 B9	Undela Chinna Obula Reddy	Undela GuruLaksh mi	DS	9. 2	20	Comp uter Scienc e	2-2	69362 17808 42
22	anushayalabolu12	Anusha	21KP	Chinna	Lakshmi	DS	75	19	CSD	2-2	83078

G m ail	STUDENT NAME	ROLL NUMB ER	FAT HER NAM E	MOTHE NAM	( 'A NI IR		C G PA	A G E	BR AN CH	SEM: STER		
	@gmail.com	yalabol u	1A44 C7	anjay	ya narayan	am a		.0				50660 37
23	madhulathasure9 @gmail.com	SURE. MADH ULATH A	21KP 1A44 A4	SURE.VI WANAD Al	H LAKSI		DS	10	20	Data science		77648 60626 08
25	shiakmobin2002 @gmail.com	Shaikm obin	21KP 1A44 97	sha karimulla		aik ana	DS	8. 8	21	Ds	s 2.2	90435 56564 68
27	ravuakshaya@gm ail.com	Ravu.ak shaya	21KP 1A44 85	Ravu.srin	_		DS	80 .0	19	Ds	s 2.2	54430 57831 28
OU'	TPUT:											
	Gmail	STUD ENT	ROLL NUMB	FATH ER	MOTHE	CO	U (	CG	( <u>`</u>	BRA	SEMI	AADH AAR
		NAM E	ER	NAME	R NAME	RS	<b>E</b> 1	PA	E	NCH	STER	NO
0	vennachandana1 @gmail.com				Venna Lakshmid evi	RS.		8.0 0	<b>E</b> 19	Data scien ce	2-2	
0		Venna Chand	<b>ER</b> 21KP1	Venna Raman	Venna Lakshmid		S F	8.0	<b>E</b> 19	Data scien		NO 636336
	@gmail.com adilakshmi4765@	Venna Chand ana N.Ven	21KP1 A44C5	Venna Raman areddy N.Mani kya	Venna Lakshmid evi N.Sri	D CS ME	es i	8.0 0 83.	19 19	Data scien ce	2-2	NO 636336 922883 602515
1	@gmail.com adilakshmi4765@ gmail.com sravankumar7156	Venna Chand ana N.Ven katesh	21KP1 A44C5 21KP1 A4468 21KP1	Venna Raman areddy N.Mani kya Rao Rama Chandr	Venna Lakshmid evi N.Sri Lakshmi	D CS ME	es E C H	8.0 0 83. 00	19 19	Data scien ce CSE- DS	2-2 II-II	636336 922883 602515 258256
2	@gmail.com adilakshmi4765@ gmail.com sravankumar7156 @gmail.com sandeepyeruva112	Venna Chand ana N.Ven katesh Sravan Kumar Yeruva sandee p	21KP1 A44C5 21KP1 A4468 21KP1 A4488	Venna Raman areddy  N.Mani kya Rao  Rama Chandr a Rao  Yeruva Ajay Kumar	Venna Lakshmid evi N.Sri Lakshmi Venkates waramma	CS ME	E CH	8.0 0 83. 00 7.0 0	19 19 20 20	Data scien ce CSE- DS	2-2 II-II 4	636336 922883 602515 258256 930319 053088
1 2 3	@gmail.com adilakshmi4765@ gmail.com sravankumar7156 @gmail.com sandeepyeruva112 4@gmail.com	Venna Chand ana N.Ven katesh Sravan Kumar Yeruva sandee p reddy B.sivaj	21KP1 A44C5 21KP1 A4468 21KP1 A4488 21KP1 A44D1	Venna Raman areddy  N.Mani kya Rao  Rama Chandr a Rao  Yeruva Ajay Kumar reddy  B.laksh	Venna Lakshmid evi N.Sri Lakshmi Venkates waramma Yeruva Anjali Devi	CS ME	E CH	8.0 0 83. 00 7.0 0	E 19 19 20 20	Data scien ce  CSE-DS  mech  CSE  Comp uter scien	2-2 II-II 4 2-3	922883 602515 258256 930319 053088 576154 990146

<del>.</del>

## df.nlargest(52,columns=['CGPA'])

## **OUTPUT:**

	Gmail	STUDE NT NAME	ROLL NUM BER	FATHE R NAME	MOTH ER NAME	CO URS E	C GP A	A G E	BRANC H	SEMI STER	AADH AAR NO
3 8	abdulabdul22070 @gmail.com	Syed.Ab dul Rehama n	21KP1 A44A6	Syed.M eera Sharif	Bandi.Kr ishna veni	DS	90. 00	20	DS	2-2	347853 509974
4 8	sriharshanallaboth u@gmail.com	Nallabot hu. Sri Harsha	21KP1 A4469	Nallabot hu. Anjaney ulu	Nallabot hu. Anitha	DS	90. 00	21	CSD	2-2	208611 060176
5 0	arundathi0508@g mail.com	PANDA UMA ARUND ATHI	21KP1 A4474	PANDA NARA YANA RAO	PANDA PRASA NNA LAKSH MI	DS	87. 00	19	CSD	2-2	652650 486629
1	adilakshmi4765@g mail.com	N.Venka tesh	21KP1 A4468	N.Mani kya Rao	N.Sri Lakshmi	CSE	83. 00	19	CSE-DS	II-II	602515 258256
5	chinnivignesh144 @gmail.com	chinni vignesh teja yadav	21KP1 A44C6	Chinni Pratap Kumar	Chinni Bhargavi	DS	80. 00	19	Data Science	4th semes ter	639534 870436
4 4	saidashaik371@g mail.com	SHAIK SAIDA ANWA R BASHA	21KP1 A44A2	SHAIK KUDH AN VALI	SHAIK SAIDA HUSSA NBI	DS	80. 00	20	DATAS CIENCE	2-2	466722 650274
3 6	nikitharayapati9@ gmail.com	Nikhitha Rayapati	21KP1 A4487	Rayapat i hanumat hrao	Rayapati malleswa ri	DS	80. 00	19	Ds	2-2	963360 828294
2 7	ravuakshaya@gma il.com	Ravu.ak shaya	21KP1 A4485	Ravu.sri nivasrao	Ravu.aru na kumari	DS	80. 00	19	Ds	2.2	544305 783128
4 3	paladugudurga1@ gmail.com	P. Durga Sri	21KP1 A4473	P. Amares wara rao	P. Seshu Kumari	DS	80. 00	20	CSD(Da ta Science)	2-2	692162 661608

Gmail	STUDE NT	ROLL NUM	FATHE R	MOTH ER	CO URS	C GP	A G	BRANC	SEMI	AADH AAR
Gilian	NAME	BER	NAME	NAME	E	A	E	Н	STER	NO
shaiksakina05@g mail.com	Shaik sameer	21KP1 A44A3	Shaik Rahim babu	Shaik Raziya	DS	80. 00	20	DS	2-2	529261 464345
ramyayalabolu123r @gmail.com	Y.Ramy a	21KP1 A44C8	Y.Anjai ah	Y Lakshmi Rajyam	DS	80. 00	19	CSD	2-2	724574 588425
thammisettysrikant hraj9@gmail.com	T.Srikan th	21KP1 A44B5	T.vasu	T.jaya	DS	0.7 5	19	Data Science	2-2	673112 205183
sivajibejjanki@gm ail.com	B.sivaji	22kp5a 4402	B.laksh maiah	B.veram ma	DS	0.7	23	Comput er science	2-2	895444 662410
2 farukh.786syed@g 1 mail.com	SYED.F ARUKH	21KP1 A44A7	SYED.B AJI	SYED.S ARTHA J BEGUM	DS	0.7	19	DS	2-2	764320 730678
										In [30]:

df.nsmallest(52,columns=['CGPA'])

OUTPUT:

	Gmail	STUD ENT NAME	ROLL NUMB ER	FATHE R NAME	MOT HER NAME	COU RSE	CG PA	A G E	BRANC H	SEMI STER	Out[30]:  AADH  AAR  NO
3	harikabangaram31 3@gmail.com	Harika	22KP5 A4401	A.Subra manyam	A.Dha na Bhagya m	DS	75. 00	19	Data science	2-2	574930 568520
4 2	thiriveedhinagajyo thi@gmail.com	T. Nagajy othi	21KP1 A44B7	T. Venkayy a	T. Raman jamma	DS	75. 00	19	DS	4	330477 145525
4	reshmayalamanchi @gmail.com	Reshma yalama nchi	21KP1 A44C9	Yalaman chi subba Rao	Yalam anchi sunitha	DS	75. 00	19	DS	4	742366 316353
2 2	anushayalabolu12 @gmail.com	Anusha yalabol u	21KP1 A44C7	Chinna anjayya	Laksh mi naraya	DS	75. 00	19	CSD	2-2	830785 066037

	Gmail	STUD ENT NAME	ROLL NUMB ER	FATHE R NAME	MOT HER NAME	COU RSE	CG PA	A G E	BRANC H	SEMI STER	AADH AAR NO
					nama						
1 7	shaiksakina05@g mail.com	Shaik sameer	21KP1 A44A3	Shaik Rahim babu	Shaik Raziya	DS	80. 00	20	DS	2-2	529261 464345
5	ramyayalabolu123 r@gmail.com	Y.Ram ya	21KP1 A44C8	Y.Anjaia h	Y Laksh mi Rajya m	DS	80. 00	19	CSD	2-2	724574 588425
4 4	saidashaik371@g mail.com	SHAIK SAIDA ANWA R BASH A	21KP1 A44A2	SHAIK KUDHA N VALI	SHAIK SAIDA HUSS ANBI	DS	80. 00	20	DATAS CIENCE	2-2	466722 650274
5	chinnivignesh144 @gmail.com	chinni vignesh teja yadav	21KP1 A44C6	Chinni Pratap Kumar	Chinni Bharga vi	DS	80. 00	19	Data Science	4th semest er	639534 870436
3 6	nikitharayapati9@ gmail.com	Nikhith a Rayapat i	21KP1 A4487	Rayapati hanumat hrao	Rayapa ti malles wari	DS	80. 00	19	Ds	2-2	963360 828294
2 7	ravuakshaya@gm ail.com	Ravu.ak shaya	21KP1 A4485	Ravu.sri nivasrao	Ravu.a runa kumari	DS	80. 00	19	Ds	2.2	544305 783128
4 3	paladugudurga1@ gmail.com	P. Durga Sri	21KP1 A4473	P. Amares wara rao	P. Seshu Kumari	DS	80. 00	20	CSD(Dat a Science)	2-2	692162 661608
1	adilakshmi4765@ gmail.com	N.Venk atesh	21KP1 A4468	N.Manik ya Rao	N.Sri Laksh mi	CSE	83. 00	19	CSE-DS	II-II	602515 258256
5 0	arundathi0508@g mail.com	PAND A UMA ARUN DATHI	21KP1 A4474	PANDA NARAY ANA RAO	PAND A PRAS ANNA LAKS HMI	DS	87. 00	19	CSD	2-2	652650 486629

<del>13</del> 35

```
\begin{array}{l} \textbf{gr=df.groupby}(["AGE",'BRANCH'])\\ \textbf{gr.first}() \end{array}
```

## **OUTPUT:**

	Gmai1	STUDENT NAME	١
0	vennachandana1@gmail.com	Venna Chandana	
4	sivajibejjanki@gmail.com	B. sivaji	
5	ramyayalabolu123r@gmail.com	Y. Ramya	
6	charithareddy3914@gmail.com	P.charitha reddy	
7	gayathripolepalli70@gmail.com	POLEPALLI. GAYATHRI	
9	sowjanyathotall@gmail.com	T. SOWJANYA	
10	tammasahithil@gmail.com	Tamma Sahithi	
11	podilisarayu6@gmail.com	PODILI LAKSHMISARAYU	
12	shaikkarishma811@gmail.com	shaik karishma	
13	kumarvalaparla890@gmail.com	Venkata Aravind Kumar.V	
16	vanukuri.raghava@gmail.com	Raghava	
17	shaiksakina05@gmail.com	Shaik sameer	
18	us465249@gmail.com	S sk usman	
19	vallu.srinu756939@gmail.com	Vallu Srinu Siva Subrahmanyam	
20	undelachandraobulareddy@gmail.com	Undela Chandra Obula Reddy	
21	farukh.786syed@gmail.com	SYED. FARUKH	
22	anushayalabolu12@gmail.com	Anusha yalabolu	
23	madhulathasure9@gmail.com	SURE. MADHULATHA	
24	thammisettysrikanthraj9@gmail.com	T. Srikanth	
25	shiakmobin2002@gmail.com	Shaikmobin	
27	ravuakshaya@gmail.com	Ravu. akshaya	
29	ynagasasikumar@gmail.com	Y Naga Sasi Kumar	
30	rahamtunnisashaik09@gmail.com	Shaik Rahamtunnisa	
31	harikabangaram313@gmail.com	Harika	
32	indupriya72216@gmail.com	Indu Priya Patcha	

x=df.groupby('COURSE').get\_group('DS')
print(x)

----3

### **OUTPUT:**

	Gn	nail		STUDENT NAME	₹ \	
1	0	icii	1	vennachandanal@gmail.com	Venna Chanc	lana
	4			sivajibejjanki@gmail.com	B.sivaji	ıunu
	5			yayalabolu123r@gmail.com	<u> </u>	amya
	6		-	ithareddy3914@gmail.com	P.charitha reddy	•
	7	œ		ripolepalli70@gmail.com	POLEPALLI. GAYAT	
	9	go	•	wjanyathota11@gmail.com	T.SOWJ	
	10		50	tammasahithi1@gmail.com	Tamma Sal	
	11			podilisarayu6@gmail.com	PODILI LAKSHMIS	
	12		cho	ikkarishma811@gmail.com	shaik karishr	
	13				Venkata Aravind Kumar	
	15 16			arvalaparla890@gmail.com		
	10 17		vai	nukuri.raghava@gmail.com	Ragh Shaik sam	
	17 18			shaiksakina05@gmail.com	Shaik sam S sk i	
			*** 11v	us465249@gmail.com		
	19	undala		<u> </u>	Srinu Siva Subrahmanyam	
1	20	underac	cnanc	draobulareddy@gmail.com U	ndela Chandra Obula Redd	У
		CGPA	4 A(	<del>J</del> E	BRANCH	SEMISTER \
(	0	8.00	19		Data science	2-2
4	4	0.72	23	C	Computer science	2-2
4	5	80.00	19		CSD	2-2
(	6	70.00	19		CSD	2.2
7	7	10.00	19		Data Science	2-2
9	9	8.00	19		DATA SCIENCE	2-2
	10	7.70	19	CSI	E (Data science)	2-2
	11	7.50	19		DATA SCIENCE	2-2
	12	9.00	19		ds	2-2
	13	0.98	20		Data Science	2-2
	16	7.00	19		Data science	2-2
	17	80.00	20		DS	2-2
	18	50.00	19		DS	2-2
	19	73.00	20	Computer Science Engineering&	t Data Science	4
2	20	9.20	20	C	Computer Science	2-2
2	21	0.70	19		DS	2-2
		A	ADH	AAR NO		
(	0	6363	33692	22883		
4	4	8954	14466	52410		
4	5	7245	57458	38425		
(	6	8101	17752	24502		
1	7	7218	31916	58061		
٥	9	3386	56694	18901		
	10	6853	34983	32128		
	11	4586	58974	11091		
	12	6630	)4852	21599		
	13	5103	30534	15824		
- 1						

```
16 424973081348
17 529261464345
18 568753875709
19 ************
20 693621780842
```

df.replace(['18h'],18,inplace=True)
print(df)

#### **OUTPUT:**

	Gmail	STUDENT NAME \
0	vennachandana1@gmail.com	Venna Chandana
1	adilakshmi4765@gmail.com	N.Venkatesh
2	sravankumar7156@gmail.com	Sravan Kumar
3	sandeepyeruva1124@gmail.com	Yeruva sandeep reddy
4	sivajibejjanki@gmail.com	B.sivaji
5	ramyayalabolu123r@gmail.com	Y.Ramya
6	charithareddy3914@gmail.com	P.charitha reddy
7	gayathripolepalli70@gmail.com	POLEPALLI. GAYATHRI
8	syedtasleem07@gmail.com	Syed Tasleem Afroze
9	sowjanyathota11@gmail.com	T.SOWJANYA
10	tammasahithi1@gmail.com	Tamma Sahithi
11	podilisarayu6@gmail.com	PODILI LAKSHMISARAYU
12	shaikkarishma811@gmail.com	shaik karishma
13	kumarvalaparla890@gmail.com	Venkata Aravind Kumar.V
14	patchachinnu3@gmail.com	Patcha Jaswanth
15	manu952041@gmail.cor	n Pachipulusu Manohar
16	vanukuri.raghava@gmail.com	Raghava
17	shaiksakina05@gmail.com	Shaik sameer
18	us465249@gmail.com	S sk usman
19	vallu.srinu756939@gmail.com	Vallu Srinu Siva Subrahmanyam
20	undelachandraobulareddy@gmail.com	Undela Chandra Obula Reddy

	COURSE CGPA	A AGE	BRANCH \	١
0	DS 8.00	19	Data science	
1	CSE 83.00	19	CSE-DS	
2	MECH 7.00	20	mech	
3	CSE 9.50	20	CSE	
4	DS 0.72	23	Computer science	
5	DS 80.00	19	CSD	
6	DS 70.00	19	CSD	

3

7	DS	10.00	19	Data Science
8	<b>MECH</b>	8.00	19	DS
9	DS	8.00	19	DATA SCIENCE
10	DS	7.70	19	CSE (Data science)
11	DS	7.50	19	DATA SCIENCE
12	DS	9.00	19	ds
13	DS	0.98	20	Data Science
14	CSE	0.99	20	Data science
15	MECH	8.50	19	19
16	DS	7.00	19	Data science
17	DS	80.00	20	DS
18	DS	50.00	19	DS
19	DS	73.00	20	Computer Science Engineering& Data Science
20	DS	9.20	20	Computer Science

 $\begin{array}{ll} gr\_mech = & df.groupby('COURSE').get\_group('MECH') \\ gr\_mech \end{array}$ 

#### **OUTPUT:**

GmailSTUDENT NAMEROLL NUMBERFATHER NAMEMOTHER NAMECOURSECGPAAGEBRANCHSEMISTERAADHAAR NO2sravankumar7156@gmail.comSravan Kumar21KP1A4488Rama Chandra RaoVenkateswarammaMECH7.020mech49303190530888syedtasleem07@gmail.comSyed Tasleem Afroze21KP1A44A9Syed RahimanSyed NaseemaMECH8.019DS2-261702035479315manu952041@gmail.comPachipulusu Manohar21KP1A4472Pachipulusu PrasadPachipulusu BhavaniMECH8.519192-2559366114423

gr\_cse=df.groupby('COURSE').get\_group('CSE') gr\_cse

G ma il	STUDENT NAME	ROL L NUM BER	FATH ER NAM E	MOTHE R NAME	COU RSE	CG PA	A G E	BRA NCH	SEMI STER	AAD HAA R NO	
1	adilakshmi4765@gm ail.com	N.Ven katesh	21KP1 A4468	N.Manik ya Rao	N.Sri Laksh mi	CS E	83 .0 0	19	CSE- DS	II-II	602515 258256
3	sandeepyeruva1124@ gmail.com	Yeruv a sandee p reddy	21KP1 A44D1	Yeruva Ajay Kumar reddy	Yeruv a Anjali Devi	CS E	9. 50	20	CSE	2-3	576154 990146
14	patchachinnu3@gmai	Patcha	21KP1	Patcha	Patcha	CS	0.	20	Data	2-2	744020
											_

G ma il	STUDENT NAME	ROL L NUM BER	FATH ER NAM E	MOTHE R NAME	COU RSE	CG PA	A G E	BRA NCH	SEMI STER	AAD HAA R NO	
	l.com	Jaswa nth	A4477	apparao	sukany a	E	99		scienc e		413963
28	hemasanjushasanikom mu828@gmail.com	hema sanjus ha	21KP1 A4491	musalare ddy	sivapar vathi	CS E	73 .0 0	18	cse	2-2	422314 863763
34	sudhamshavejendla@ gmail.com	Vejen dla Devi Sri Sudha msha	21KP1 A44C4	Vejendla Srinivass Rao	Vejend la Laxmi Prasan na	CS E	70 .0 0	19	Cse- Data Scienc e	2_2	587480 445790
37	indhupotla123@gmail .com	indhu priya	21KP1 A4483	Lakshma narayana	Sujath a	CS E	72 .0 0	19	cse	2-2	524345 891620
39	jaffershaik718@gmail .com	Jaffer shaik	21KP1 A4495	shaik.Lai Laha	shaik. Ramja n bee	CS E	70 .0 0	19	cse	2nd	912229 276699
47	saisairam068@gmail.	Saira m	21kp1a 44b4	Venkata subbiah	Ravan amma	CS E	10 .0 0	19	Da	2-2	746109 575146
											In [64]:

age19=df.groupby('AGE').get\_group(19) age19

**OUTPUT:** 

G m ail	STUDENT NAME	ROLL NUMBE R	FATH ER NAM E	MOTH ER NAME	COURSE	C GP A	A G E	BRA NC H		AAD HAA R NO	
0	vennachandana1 @gmail.com	Venna Chandana	21KP1 A44C 5	Venna Ramana reddy	Venna Lakshmide vi	DS	8. 00	19	Data scienc e	2-2	63633 69228 83
1	adilakshmi4765@	N.Venkat	21KP1	N.Mani	N.Sri	CS	83	19	CSE-	II-II	60251

Gm	STUDENT	ROLL NUMBE	FATH ER	MOTH ER	COURSE	C GP	A G	BRA NC	SEM ISTE	AAD HAA	
ail	NAME	R	NAM E	NAME	COCKSE	A	E	Н	R	R NO	
	gmail.com	esh	A4468	kya Rao	Lakshmi	Е	.0 0		DS		52582 56
5	ramyayalabolu12 3r@gmail.com	Y.Ramya	21KP1 A44C 8	Y.Anjai ah	Y Lakshmi Rajyam	DS	80 .0 0	19	CSD	2-2	72457 45884 25
6	charithareddy391 4@gmail.com	P.charitha reddy	21KP1 A4475	P.Madh ava Reddy	P.Kavitha	DS	70 .0 0	19	CSD	2.2	81017 75245 02
7	gayathripolepalli7 0@gmail.com	POLEPA LLI. GAYATH RI	21KP1 A4481	POLEP ALLI. GURUB RAHM A CHARI	POLEPAL LI.SRIDE VI	DS	10 .0 0	19	Data Scien ce	2-2	72181 91680 61
8	syedtasleem07@g mail.com	Syed Tasleem Afroze	21KP1 A44A 9	Syed Rahima n	Syed Naseema	M EC H	8. 00	19	DS	2-2	61702 03547 93
9	sowjanyathota11 @gmail.com	T.SOWJA NYA	21KP1 A44B 6	T.SAM BA SIVA RAO	T.ARUNA KUMARI	DS	8. 00	19	DAT A SCIE NCE	2-2	33866 69489 01
10	tammasahithi1@g mail.com	Tamma Sahithi	21KP1 A44B 0	Tamma krishna reddy	Tamma Padmavath i	DS	7. 70	19	CSE (Data scienc e)	2-2	68534 98321 28
11	podilisarayu6@g mail.com	PODILI LAKSHM ISARAY U	21KP1 A4480	PODILI RAMES H	PODILI ADILAKS HMI	DS	7. 50	19	DAT A SCIE NCE	2-2	45868 97410 91
12	shaikkarishma811 @gmail.com	shaik karishma	21KP1 A4496	SHAIK BAJI	SHAIK KHADRU N	DS	9. 00	19	ds	2-2	66304 85215 99
15	manu952041@g mail.com	Pachipulu su Manohar	21KP1 A4472	Pachipul usu Prasad	Pachipulus u Bhavani	M EC H	8. 50	19	19	2-2	55936 61144 23
16	vanukuri.raghava @gmail.com	Raghava	21KP1 A44C	Srinivas a reddy	Jyothi	DS	7. 00	19	Data scienc	2-2	42497 30813

G m ail	STUDENT NAME	ROLL NUMBE R	FATH ER NAM E	MOTH ER NAME	COURSE	C GP A	A G E	BRA NC H	SEM ISTE R	AAD HAA R NO	48
18	us465249@gmail.	S sk usman	21KP1 A4492	S sk mastan vali	Mahabobb a	DS	50 .0 0	19	DS	2-2	56875 38757 09
21	farukh.786syed@ gmail.com	SYED.FA RUKH	21KP1 A44A 7	SYED.B AJI	SYED.SA RTHAJ BEGUM	DS	0. 70	19	DS	2-2	76432 07306 78
22	anushayalabolu12 @gmail.com	Anusha yalabolu	21KP1 A44C 7	Chinna anjayya	Lakshmi narayanam a	DS	75 .0 0	19	CSD	2-2	83078 50660 37
24	thammisettysrika nthraj9@gmail.co m	T.Srikanth	21KP1 A44B 5	T.vasu	T.jaya	DS	0. 75	19	Data Scien ce	2-2	67311 22051 83
27	ravuakshaya@gm ail.com	Ravu.aksh aya	21KP1 A4485	Ravu.sri nivasrao	Ravu.aruna kumari	DS	80 .0 0	19	Ds	2.2	54430 57831 28
31	harikabangaram3 13@gmail.com	Harika	22KP5 A4401	A.Subra manyam	A.Dhana Bhagyam	DS	75 .0 0	19	Data scienc e	2-2	57493 05685 20
33	bhavyasrisajja200 3@gmail.com	Bhavya sri	21KP1 A4490	Mohan krishna	Usha rani	DS	70 .0 0	19	Ds	2-2	27473 68900 47
34	sudhamshavejend la@gmail.com	Vejendla Devi Sri Sudhamsh a	21KP1 A44C 4	Vejendl a Srinivas s Rao	Vejendla Laxmi Prasanna	CS E	70 .0 0	19	Cse- Data Scien ce	2_2	58748 04457 90

age20=df.groupby('AGE').get\_group(20)

**OUTPUT:** 

ROL L FATHE **MOTH AAD** CG A BRA SEMI G **STUDENT NAME** NU ER COURSE R HAA PA GE NCH STER ma MBE NAME NAME **R NO** il R

\_\_\_\_

G ma il	STUDENT NAME	ROL L NU MBE R	FATHE R NAME	MOTH ER NAME	COURSE	CG PA	A GE	BRA NCH	SEMI STER	AAD HAA R NO	
2	sravankumar7156 @gmail.com	Srav an Kum ar	21KP1 A4488	Rama Chandr a Rao	Venkates waramma	ME CH	7.0	20	mech	4	930319 053088
3	sandeepyeruva11 24@gmail.com	Yeru va sand eep redd y	21KP1 A44D1	Yeruva Ajay Kumar reddy	Yeruva Anjali Devi	CS E	9.5	20	CSE	2-3	576154 990146
13	kumarvalaparla89 0@gmail.com	Venk ata Aravi nd Kum ar.V	21KP1 A44C0	Veeras wamy.v	Lakshmi.v	DS	0.9	20	Data Scien ce	2-2	510305 345824
14	patchachinnu3@ gmail.com	Patc ha Jasw anth	21KP1 A4477	Patcha appara o	Patcha sukanya	CS E	0.9	20	Data scien ce	2-2	744020 413963
17	shaiksakina05@g mail.com	Shaik same er	21KP1 A44A3	Shaik Rahim babu	Shaik Raziya	DS	80. 00	20	DS	2-2	529261 464345
19	vallu.srinu756939 @gmail.com	Vallu Srinu Siva Subr									

 $\begin{array}{l} gr\_ds = \!\! df.groupby('COURSE').get\_group('DS') \\ gr\_ds \end{array}$ 

<del>- 4</del>

## **OUTPUT:**

G m ail	STUDENT NAME	ROLL NUMBE R	FAT HER NAM E	MOTHER NAME	COURSE	C G P A	A G E	BR AN CH	SEMI STER	AAD HAA R NO	
0	vennachandana1 @gmail.com	Venna Chandana	21KP 1A44 C5	Venna Ramanared dy	Venna Lakshmid evi	DS	8. 00	19	Data scienc e	2-2	63633 69228 83
4	sivajibejjanki@g mail.com	B.sivaji	22kp5 a4402	B.lakshmai ah	B.veramm a	DS	0. 72	23	Comp uter scienc e	2-2	89544 46624 10
5	ramyayalabolu12 3r@gmail.com	Y.Ramya	21KP 1A44 C8	Y.Anjaiah	Y Lakshmi Rajyam	DS	80 .0 0	19	CSD	2-2	72457 45884 25
6	charithareddy391 4@gmail.com	P.charitha reddy	21KP 1A44 75	P.Madhava Reddy	P.Kavitha	DS	70 .0 0	19	CSD	2.2	81017 75245 02
7	gayathripolepalli 70@gmail.com	POLEPA LLI. GAYAT HRI	21KP 1A44 81	POLEPAL LI. GURUBRA HMA CHARI	POLEPAL LI.SRIDE VI	DS	10 .0 0	19	Data Scien ce	2-2	72181 91680 61
9	sowjanyathota11 @gmail.com	T.SOWJ ANYA	21KP 1A44 B6	T.SAMBA SIVA RAO	T.ARUNA KUMARI	DS	8. 00	19	DAT A SCIE NCE	2-2	33866 69489 01
10	tammasahithi1@ gmail.com	Tamma Sahithi	21KP 1A44 B0	Tamma krishna reddy	Tamma Padmavat hi	DS	7. 70	19	CSE (Data scienc e)	2-2	68534 98321 28
11	podilisarayu6@g mail.com	PODILI LAKSH MISARA YU	21KP 1A44 80	PODILI RAMESH	PODILI ADILAKS HMI	DS	7. 50	19	DAT A SCIE NCE	2-2	45868 97410 91
12	shaikkarishma81 1@gmail.com	shaik karishma	21KP 1A44 96	SHAIK BAJI	SHAIK KHADRU N	DS	9. 00	19	ds	2-2	66304 85215 99
13	kumarvalaparla8	Venkata	21KP	Veeraswam	Lakshmi.v	DS	0.	20	Data	2-2	51030

G m ail	STUDENT NAME	ROLL NUMBE R	FAT HER NAM E	MOTHER NAME	COURSE	C G P A	A G E	BR AN CH	SEMI STER	AAD HAA R NO	
	90@gmail.com	Aravind Kumar.V	1A44 C0	y.v			98		Scien ce		53458 24
16	vanukuri.raghava @gmail.com	Raghava	21KP 1A44 C3	Srinivasa reddy	Jyothi	DS	7. 00	19	Data scienc e	2-2	42497 30813 48
17	shaiksakina05@g mail.com	Shaik sameer	21KP 1A44 A3	Shaik Rahim babu	Shaik Raziya	DS	80 .0 0	20	DS	2-2	52926 14643 45
18	us465249@gmail .com	S sk usman	21KP 1A44 92	S sk mastan vali	Mahabobb a	DS	50 .0 0	19	DS	2-2	56875 38757 09
19	vallu.srinu75693 9@gmail.com	Vallu Srinu Siva Subrahm anyam	21KP 1A44 C1	Vallu Srinivasa Rao	Vallu Surya kumari	DS	73 .0 0	20	Comp uter Scien ce Engin eering & Data Scien ce	4	***** **** **
20	undelachandraob ulareddy@gmail. com	Undela Chandra Obula Reddy	21KP 1A44 B9	Undela Chinna Obula Reddy	Undela GuruLaks hmi	DS	9. 20	20	Comp uter Scien ce	2-2	69362 17808 42
21	farukh.786syed@ gmail.com	SYED.F ARUKH	21KP 1A44 A7	SYED.BAJ I	SYED.SA RTHAJ BEGUM	DS	0. 70	19	DS	2-2	76432 07306 78
22	anushayalabolu1 2@gmail.com	Anusha yalabolu	21KP 1A44 C7	Chinna anjayya	Lakshmi narayanam a	DS	75 .0 0	19	CSD	2-2	83078 50660 37
23	madhulathasure9 @gmail.com	SURE. MADHU LATHA	21KP 1A44 A4	SURE.VIS WANADH AM	SURE.SAI LAKSHM I	DS	10 .0 0	20	Data scienc e	2-2	77648 60626 08
24	thammisettysrika nthraj9@gmail.c om	T.Srikant h	21KP 1A44 B5	T.vasu	T.jaya	DS	0. 75	19	Data Scien ce	2-2	67311 22051 83

G m ail	STUDENT NAME	ROLL NUMBE R	FAT HER NAM E	MOTHER NAME	COURSE	C G P A	A G E	BR AN CH	SEMI STER	AAD HAA R NO	
25	shiakmobin2002 @gmail.com	Shaikmo bin	21KP 1A44 97	shaik karimullah	Shaik rihana	DS	8. 80	21	Ds	2.2	90435 56564 68
27	ravuakshaya@gm ail.com	Ravu.aks haya	21KP 1A44 85	Ravu.sriniv asrao	Ravu.arun a kumari	DS	80 .0 0	19	Ds	2.2	54430 57831 28
29	ynagasasikumar @gmail.com	Y Naga Sasi Kumar	21KP 1A44 D0	Y Rama mohanarao	Y Lalitha	DS	9. 20	20	20	2-2	44817 24962 92
30	rahamtunnisashai k09@gmail.com	Shaik Rahamtu nnisa	21KP 1A44 A0	Shaik.maha boobjani	Shaik.mun ni	DS	8. 00	18	Data scienc e	2-2	40697 61693 51
31	harikabangaram3 13@gmail.com	Harika	22KP 5A44 01	A.Subrama nyam	A.Dhana Bhagyam	DS	75 .0 0	19	Data scienc e	2-2	57493 05685 20
32	indupriya72216 @gmail.com	Indu Priya Patcha	21KP 1A44 76	Appa rao Patcha	Renuka Patcha	DS	0. 75	18	Data Scien ce	2-2	57304 18809 49
33	bhavyasrisajja20 03@gmail.com	Bhavya sri	21KP 1A44 90	Mohan krishna	Usha rani	DS	70 .0 0	19	Ds	2-2	27473 68900 47
35	bhanuthanirru@g mail.com	Thanirru Bhanu venkata prasad	21KP 1A44 B2	T sathyanaray ana	T rama devi	DS	9. 60	19	19	2-2	35722 82028 35
36	nikitharayapati9 @gmail.com	Nikhitha Rayapati	21KP 1A44 87	Rayapati hanumathra o	Rayapati malleswari	DS	.0 0	19	Ds	2-2	96336 08282 94
38	abdulabdul22070 @gmail.com	Syed.Abd ul Rehaman	21KP 1A44 A6	Syed.Meera Sharif	Bandi.Kris hna veni	DS	90 .0 0	20	DS	2-2	34785 35099 74
40	rabbanishaik7356 @gmail.com	SHAIK RABBA NI	21KP 1A44 99	SHAIK MOHAMM AD HANIF	SHAIK MALIN	DS	9. 50	21	CSD	2-2	20593 39562 04
41	reshmayalamanc hi@gmail.com	Reshma yalamanc	21KP 1A44	Yalamanchi subba Rao	Yalamanc hi sunitha	DS	75 .0	19	DS	4	74236 63163

G m ail	STUDENT NAME	ROLL NUMBE R	FAT HER NAM E	MOTHER NAME	COURSE	C G P A	A G E	BR SEMI CH STER	AAD HAA R NO	
		hi	C9				0			53

 $\begin{array}{l} age 18 = & df.group by ('AGE').get\_group (18) \\ age 18 \end{array}$ 

#### **OUTPUT:**

GmailSTUDENT NAMEROLL NUMBERFATHER NAMEMOTHER NAMECOURSECGPAAGEBRANCHSEMISTERAADHAAR NO28hem asanjushasanikommu828@gmail.comhema sanjusha21KP1A4491musalareddysivaparvathiCSE73.0018cse2-242231486376330rahamtunnisashaik09@gmail.comShaik Rahamtunnisa21KP1A44A0Shaik.mahaboobjaniShaik.munniDS8.0018Data science2-240697616935132indupriya72216@gmail.comIndu Priya Patcha21KP1A4476Appa rao PatchaRenuka PatchaDS0.7518Data Science2-2573041880949

#### PLOTTING A BAR GRAPH:

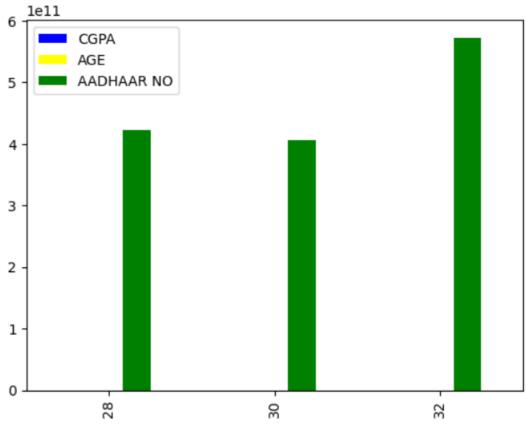
age18.plot.bar(color=['blue','yellow','green'])
age18

#### **OUTPUT:**

Gmai 1	STUDENT NAME	ROLL NUMBER	FATHER NAME	MOTHER NAME	COURSE	CGP A	AGE	BRANC H	SEMISTE R	AADHAA R NO	
28	hemasanjushasanikommu828@gmail.c om	hema sanjusha	21KP1A449 1	musalareddy	sivaparvath i	CSE	73. 0 0	18	cse	2-2	42231486376
30	rahamtunnisashaik09@gmail.com	Shaik Rahamtunnis a	21KP1A44A 0	Shaik.mahaboobjan i	Shaik. munni	DS	8.00	18	Data science	2-2	40697616935
32	indupriya72216@gmail.com	Indu Priya Patcha	21KP1A447 6	Appa rao Patcha	Renuka Patcha	DS	0.75	18	Data Science	2-2	57304188094 9

The below graph shows about the bar graph of the given data who is above 18.

### VISUALIZING THE BAR GRAPH WHO IS ABOVE 18 AGE IN THE DATA:



In [74]:

# **BAR GRAPH:**

Here we are plotting a bar graph by using some colors like blue, yellow, red. By using these colors we are plotting a bar graph by using the data.

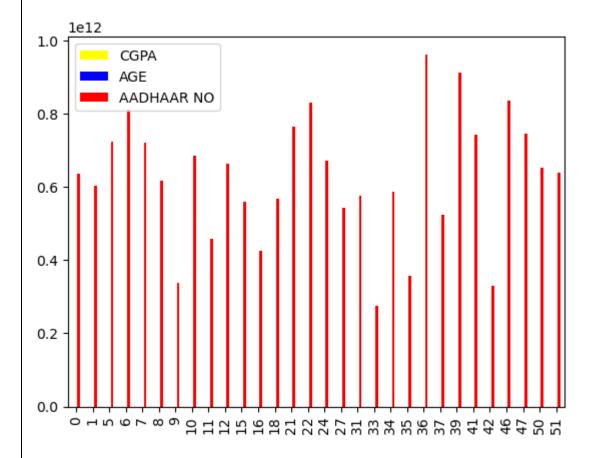
age19.plot.bar(color=['yellow','blue','red'])
age19

**OUTPUT:** 

G m ail	STUDENT NAME	ROLL NUMBE R	FATH ER NAM E	MOTH ER NAME	COURSE	C GP A	A G E	BRA NC H	SEM ISTE R	AAD HAA R NO	
0	vennachandana1 @gmail.com	Venna Chandana	21KP1 A44C 5	Venna Ramana reddy	Venna Lakshmide vi	DS	8. 00	19	Data scienc e	2-2	63633 69228 83
1	adilakshmi4765@ gmail.com	N.Venkat esh	21KP1 A4468	N.Mani kya Rao	N.Sri Lakshmi	CS E	83 .0 0	19	CSE- DS	II-II	60251 52582 56
5	ramyayalabolu12 3r@gmail.com	Y.Ramya	21KP1 A44C 8	Y.Anjai ah	Y Lakshmi Rajyam	DS	80 .0 0	19	CSD	2-2	72457 45884 25
6	charithareddy391 4@gmail.com	P.charitha reddy	21KP1 A4475	P.Madh ava Reddy	P.Kavitha	DS	70 .0 0	19	CSD	2.2	81017 75245 02
7	gayathripolepalli7 0@gmail.com	POLEPA LLI. GAYATH RI	21KP1 A4481	POLEP ALLI. GURUB RAHM A CHARI	POLEPAL LI.SRIDE VI	DS	10 .0 0	19	Data Scien ce	2-2	72181 91680 61
8	syedtasleem07@g mail.com	Syed Tasleem Afroze	21KP1 A44A 9	Syed Rahima n	Syed Naseema	M EC H	8. 00	19	DS	2-2	61702 03547 93
9	sowjanyathota11 @gmail.com	T.SOWJA NYA	21KP1 A44B 6	T.SAM BA SIVA RAO	T.ARUNA KUMARI	DS	8. 00	19	DAT A SCIE NCE	2-2	33866 69489 01
10	tammasahithi1@g mail.com	Tamma Sahithi	21KP1 A44B 0	Tamma krishna reddy	Tamma Padmavath i	DS	7. 70	19	CSE (Data scienc e)	2-2	68534 98321 28

G m ail	STUDENT NAME	ROLL NUMBE R	FATH ER NAM E	MOTH ER NAME	COURSE	C GP A	A G E	BRA NC H	SEM ISTE R	AAD HAA R NO	
11	podilisarayu6@g mail.com	PODILI LAKSHM ISARAY U	21KP1 A4480	PODILI RAMES H	PODILI ADILAKS HMI	DS	7. 50	19	DAT A SCIE NCE	2-2	45868 97410 91
12	shaikkarishma811 @gmail.com	shaik karishma	21KP1 A4496	SHAIK BAJI	SHAIK KHADRU N	DS	9. 00	19	ds	2-2	66304 85215 99
15	manu952041@g mail.com	Pachipulu su Manohar	21KP1 A4472	Pachipul usu Prasad	Pachipulus u Bhavani	M EC H	8. 50	19	19	2-2	55936 61144 23
16	vanukuri.raghava @gmail.com	Raghava	21KP1 A44C 3	Srinivas a reddy	Jyothi	DS	7. 00	19	Data scienc e	2-2	42497 30813 48
18	us465249@gmail. com	S sk usman	21KP1 A4492	S sk mastan vali	Mahabobb a	DS	50 .0 0	19	DS	2-2	56875 38757 09
21	farukh.786syed@ gmail.com	SYED.FA RUKH	21KP1 A44A 7	SYED.B AJI	SYED.SA RTHAJ BEGUM	DS	0. 70	19	DS	2-2	76432 07306 78
22	anushayalabolu12 @gmail.com	Anusha yalabolu	21KP1 A44C 7	Chinna anjayya	Lakshmi narayanam a	DS	75 .0 0	19	CSD	2-2	83078 50660 37
24	thammisettysrika nthraj9@gmail.co m	T.Srikanth	21KP1 A44B 5	T.vasu	T.jaya	DS	0. 75	19	Data Scien ce	2-2	67311 22051 83
27	ravuakshaya@gm ail.com	Ravu.aksh aya	21KP1 A4485	Ravu.sri nivasrao	Ravu.aruna kumari	DS	80 .0 0	19	Ds	2.2	54430 57831 28
31	harikabangaram3 13@gmail.com	Harika	22KP5 A4401	A.Subra manyam	A.Dhana Bhagyam	DS	75 .0 0	19	Data scienc e	2-2	57493 05685 20
33	bhavyasrisajja200 3@gmail.com	Bhavya sri	21KP1 A4490	Mohan krishna	Usha rani	DS	70 .0 0	19	Ds	2-2	27473 68900 47

#### **VISUALIZING THE GRAPH OF AGE WHO IS 19 YEARS:**



# **BAR GRAPH:**

Here we are plotting a bar graph by using some colors like red, green, blue. By using these colors we are plotting a bar graph by using the data.

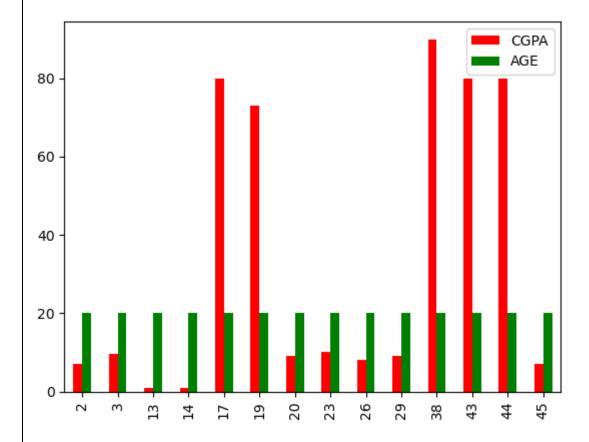
age20.plot.bar(color=['red','green','blue'])
age20

OUTPUT:

2 sravankumar/156 gmail.com Kumar 1  3 sandeepyeruva11 24@gmail.com Yeruva sandeep reddy  13 kumarvalaparla89 Venkata Aravind O@gmail.com Kumar. V  14 patchachinnu3@g mail.com Patcha Jaswant h  17 shaiksakina05@g Shaik sameer  Vallu Srinu Vallu Srinu Vallu Srinu Siva	21KP 1A448 8 21KP 1A44 D1 21KP 1A44 C0 21KP 1A447 7 21KP 1A44	Rama Chandra Rao Yeruva Ajay Kumar reddy Veeraswam y.v Patcha apparao	Venkate swaram ma Yeruva Anjali Devi Lakshmi .v	M EC H CS E DS	7. 00 9. 50 0. 98	20 20 20 20	mech  CSE  Data Science  Data science	2-3 2-2 2-2	93031 90530 88 57615 49901 46 51030 53458 24 74402 04139
3 sandeepyeruvall sandeep reddy  13 kumarvalaparla89 Venkata Aravind O@gmail.com Kumar. V  14 patchachinnu3@g mail.com Patcha Jaswant h  17 shaiksakina05@g Shaik sameer  Vallu Srinu Srinu Vallu Srinu Siva	1A44 D1 21KP 1A44 C0 21KP 1A447 7	Ajay Kumar reddy  Veeraswam y.v  Patcha apparao	Anjali Devi Lakshmi .v	E DS CS	0. 98	20	Data Science	2-2	49901 46 51030 53458 24 74402 04139
13 kumarvalaparla89 Aravind 0@gmail.com Kumar. V  14 patchachinnu3@g mail.com Patcha Jaswant h  17 shaiksakina05@g mail.com Shaik sameer  Vallu Srinu Srinu vallu.srinu756939 Siva	1A44 C0 21KP 1A447 7 21KP	y.v Patcha apparao	.v Patcha	CS	98 0.		Science Data		53458 24 74402 04139
14 patchachinnu3@g mail.com Jaswant 1 h  17 shaiksakina05@g Shaik mail.com sameer  Vallu Srinu Srinu vallu.srinu756939 Siva	1A447 7 21KP	apparao				20		2-2	04139
17 shaiksakina05@g Shaik mail.com sameer  Vallu Srinu vallu.srinu756939 Siva		G1 11							63
Srinu vallu.srinu756939 Siva	A3	Shaik Rahim babu	Shaik Raziya	DS	80 .0 0	20	DS	2-2	52926 14643 45
@gmail.com Subrah manya m	21KP 1A44 C1	Vallu Srinivasa Rao	Vallu Surya kumari	DS	73 .0 0	20	Comput er Science Enginee ring& Data Science	4	***** ***** **
undelachandraobu Undela Chandra Obula m Reddy	21KP 1A44 B9	Undela Chinna Obula Reddy	Undela GuruLak shmi	DS	9. 20	20	Comput er Science	2-2	69362 17808 42
madhiilathaciireU	21KP 1A44 A4	SURE.VIS WANADH AM	SURE.S AI LAKSH	DS	10 .0 0	20	Data science	2-2	77648 60626 08

G m ail	STUDENT NAME	ROLL NUMB ER	FAT HER NAM E	MOTHER NAME	COURS E MI	C G PA	A G E	BR AN CH	SEMIS TER	AAD HAA R NO	
26	abdulkhadar6842 @gmail.com	Shaik.A bdul Khadar	21KP 1A449 3	Shaik.Karee m	Shaik.Fa rjana	EC E	8. 00	20	20	2-2	33470 82891 54
29	ynagasasikumar@ gmail.com	Y Naga Sasi Kumar	21KP 1A44 D0	Y Rama mohanarao	Y Lalitha	DS	9. 20	20	20	2-2	44817 24962 92
38	abdulabdul22070 @gmail.com	Syed.A bdul Rehama n	21KP 1A44 A6	Syed.Meera Sharif	Bandi.K rishna veni	DS	90 .0 0	20	DS	2-2	34785 35099 74
43	paladugudurga1@ gmail.com	P. Durga Sri	21KP 1A447 3	P. Amareswara rao	P. Seshu Kumari	DS	80 .0 0	20	CSD(D ata Science	2-2	69216 26616 08
44	saidashaik371@g mail.com	SHAIK SAIDA ANWA R BASHA	21KP 1A44 A2	SHAIK KUDHAN VALI	SHAIK SAIDA HUSSA NBI	DS	80 .0 0	20	DATA SCIEN CE	2-2	46672 26502 74
55 5	mvkbn1312@gm ail.com	R.M.V. K.Brah ma Naidu	21KP 1A448 9	Yedukondal u	Nirmala	DS	7. 00	20	Data science	2-2	2387 7088 9424

#### **VISUALIZING THE BAR GRAPH OF 20 YEARS:**



# **BAR GRAPH:**

Here we are plotting a bar graph by using some colors like purple, yellow, black. using these colors we are plotting a bar graph by using the data.

By

5

gr\_ds.plot.bar(color=['yellow','red','blue']) gr\_ds

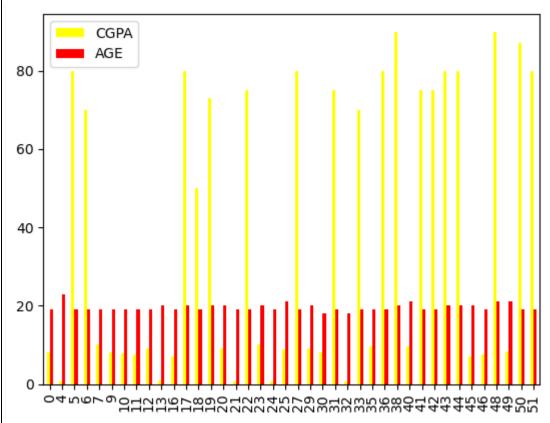
## **OUTPUT:**

G ma il	STUDENT NAME	ROLL NUMBE R	FATH ER NAM E	MOTH ER NAME	COURSE	C GP A	A G E	BRA NC H	SEMI STER	AAD HAA R NO	
0	vennachandana 1@gmail.com	Venna Chandana	21KP1 A44C 5	Venna Ramanar eddy	Venna Lakshmide vi	DS	8. 00	19	Data scienc e	2-2	636336 922883
4	sivajibejjanki@ gmail.com	B.sivaji	22kp5 a4402	B.laksh maiah	B.veramma	DS	0. 72	23	Comp uter scienc e	2-2	895444 662410
5	ramyayalabolu1 23r@gmail.com	Y.Ramya	21KP1 A44C 8	Y.Anjai ah	Y Lakshmi Rajyam	DS	80 .0 0	19	CSD	2-2	724574 588425
6	charithareddy39 14@gmail.com	P.charitha reddy	21KP1 A4475	P.Madha va Reddy	P.Kavitha	DS	70 .0 0	19	CSD	2.2	810177 524502
7	gayathripolepall i70@gmail.com	POLEPA LLI. GAYATH RI	21KP1 A4481	POLEP ALLI. GURUB RAHM A CHARI	POLEPAL LI.SRIDE VI	DS	10 .0 0	19	Data Scienc e	2-2	721819 168061
9	sowjanyathota1 1@gmail.com	T.SOWJA NYA	21KP1 A44B 6	T.SAM BA SIVA RAO	T.ARUNA KUMARI	DS	8. 00	19	DATA SCIE NCE	2-2	338666 948901
10	tammasahithi1 @gmail.com	Tamma Sahithi	21KP1 A44B 0	Tamma krishna reddy	Tamma Padmavathi	DS	7. 70	19	CSE (Data scienc e)	2-2	685349 832128

G ma il	STUDENT NAME	ROLL NUMBE R	FATH ER NAM E	MOTH ER NAME	COURSE	C GP A	A G E	BRA NC H	SEMI STER	AAD HAA R NO	
11	podilisarayu6@ gmail.com	PODILI LAKSHM ISARAY U	21KP1 A4480	PODILI RAMES H	PODILI ADILAKS HMI	DS	7. 50	19	DATA SCIE NCE	2-2	458689 741091
12	shaikkarishma8 11@gmail.com	shaik karishma	21KP1 A4496	SHAIK BAJI	SHAIK KHADRU N	DS	9. 00	19	ds	2-2	663048 521599
13	kumarvalaparla 890@gmail.co m	Venkata Aravind Kumar.V	21KP1 A44C 0	Veerasw amy.v	Lakshmi.v	DS	0. 98	20	Data Scienc e	2-2	510305 345824
16	vanukuri.ragha va@gmail.com	Raghava	21KP1 A44C 3	Srinivas a reddy	Jyothi	DS	7. 00	19	Data scienc e	2-2	424973 081348
17	shaiksakina05 @gmail.com	Shaik sameer	21KP1 A44A 3	Shaik Rahim babu	Shaik Raziya	DS	80 .0 0	20	DS	2-2	529261 464345
18	us465249@gm ail.com	S sk usman	21KP1 A4492	S sk mastan vali	Mahabobba	DS	50 .0 0	19	DS	2-2	568753 875709
19	vallu.srinu7569 39@gmail.com	Vallu Srinu Siva Subrahma nyam	21KP1 A44C 1	Vallu Srinivas a Rao	Vallu Surya kumari	DS	73 .0 0	20	Comp uter Scienc e Engine ering& Data Scienc e	4	***** ****

<del>32</del> <del>5</del>6

### VISUALIZING THE BAR PLOT OF DIFFERENCE BETWEEN AGE AND CGPA:



## **BAR GRAPH:**

Here we are plotting a bar graph by using the same data. By using these data we are plotting a graph for CSE students.

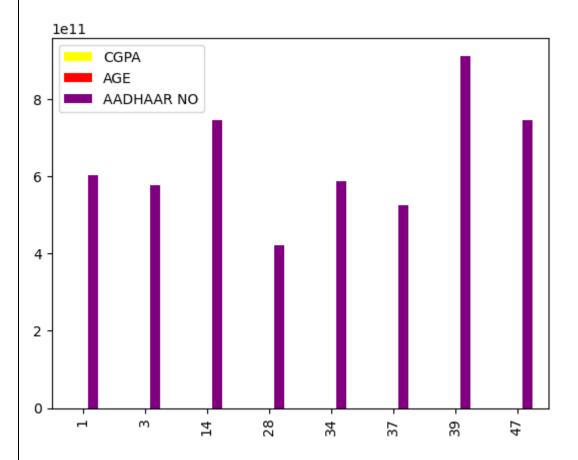
---5

gr\_cse.plot.bar(color=['yellow','red','purple'])
gr\_cse

# **OUTPUT:**

G ma il	STUDENT NAME	ROL L NUM BER	FATH ER NAM E	MOTHE R NAME	COU RSE	CG PA	A G E	BRA NCH	SEMI STER	AAD HAA R NO	
1	adilakshmi4765@gm ail.com	N.Ven katesh	21KP1 A4468	N.Manik ya Rao	N.Sri Laksh mi	CS E	83 .0 0	19	CSE- DS	II-II	602515 258256
3	sandeepyeruva1124@ gmail.com	Yeruv a sandee p reddy	21KP1 A44D1	Yeruva Ajay Kumar reddy	Yeruv a Anjali Devi	CS E	9. 50	20	CSE	2-3	576154 990146
14	patchachinnu3@gmai l.com	Patcha Jaswa nth	21KP1 A4477	Patcha apparao	Patcha sukany a	CS E	0. 99	20	Data scienc e	2-2	744020 413963
28	hemasanjushasanikom mu828@gmail.com	hema sanjus ha	21KP1 A4491	musalare ddy	sivapar vathi	CS E	73 .0 0	18	cse	2-2	422314 863763
34	sudhamshavejendla@ gmail.com	Vejen dla Devi Sri Sudha msha	21KP1 A44C4	Vejendla Srinivass Rao	Vejend la Laxmi Prasan na	CS E	70 .0 0	19	Cse- Data Scienc e	2_2	587480 445790
37	indhupotla123@gmail .com	indhu priya	21KP1 A4483	Lakshma narayana	Sujath a	CS E	72 .0 0	19	cse	2-2	524345 891620
39	jaffershaik718@gmail .com	Jaffer shaik	21KP1 A4495	shaik.Lai Laha	shaik. Ramja n bee	CS E	70 .0 0	19	cse	2nd	912229 276699
47	saisairam068@gmail. com	Saira m	21kp1a 44b4	Venkata subbiah	Ravan amma	CS E	10 .0 0	19	Da	2-2	746109 575146

## VISUALIZING THE BAR GRAPH OF CGPA, AGE & AADHAR NO:



## **BAR GRAPH:**

Here we are plotting a bar graph by using some colors like purple, yellow, black. By using these colors we are plotting a bar graph by using the data.

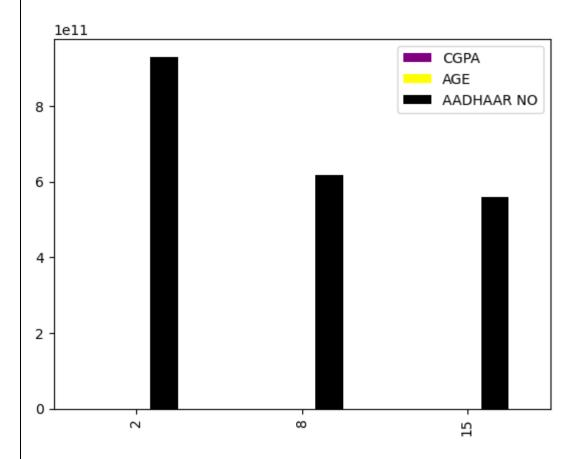
<del>----5</del>

gr\_mech.plot.bar(color=['purple','yellow','black'])
gr\_mech

## **OUTPUT:**

G ma il	STUDENT NAME	ROL L NUM BER	FATH ER NAME	MOT HER NAM E	COURSE	CG PA	A G E	BRA NCH	SEMI STER	AAD HAA R NO	
2	sravankumar715 6@gmail.com	Sravan Kumar	21KP1 A4488	Rama Chand ra Rao	Venkates waramma	ME CH	7. 0	20	mech	4	930319 053088
8	syedtasleem07@ gmail.com	Syed Taslee m Afroze	21KP1 A44A9	Syed Rahim an	Syed Naseema	ME CH	8. 0	19	DS	2-2	617020 354793
15	manu952041@g mail.com	Pachip ulusu Mano har	21KP1 A4472	Pachip ulusu Prasad	Pachipulus u Bhavani	ME CH	8. 5	19	19	2-2	559366 114423

## **VISUALIZING THE BAR GRAPH OF MECH:**



y=age18.CGPA.value\_counts()
y

### **OUTPUT:**

 $\begin{array}{ccc} 73.00 & 1 \\ 8.00 & 1 \\ 0.75 & 1 \end{array}$ 

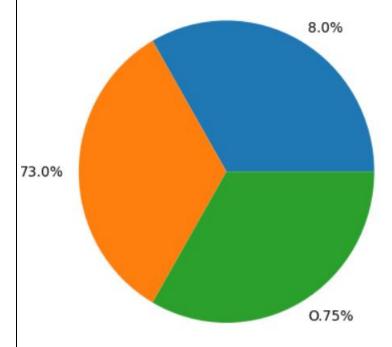
Name: CGPA, dtype: int64

# PIE PLOT:

To plot a pie graph we use the command plt.pie. Then it uses the command and build the pie plot for the given data.

```
plt.pie(y,labels=['8.0%','73.0%','0.75%'])
plt.show()
```

#### **OUTPUT:**



 $age19p = age19.CGPA.value\_counts() \\ age19p$ 

#### **OUTPUT:**

80.00 70.00 75.00 4 8.00 3 2 10.00 7.50 0.70 1 72.00 9.60 0.75 8.50 50.00 7.00 83.00 9.00 7.70 87.00 Name: CGPA, dtype: int64

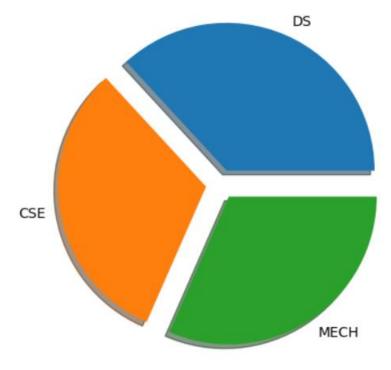
### PIE PLOT:

**H**ere we are plotting the pie plot of 3 labels I.e; DS,CSE,MECH. By using this I will plot the pie plot.

plt.pie(dsp[0:3],labels=['DS','CSE','MECH'],explode=[0.1,0.1,0.1],shadow =True)
plt.show()

---6

## **OUTPUT:**



# **SCATTER GRAPH AND LINE GRAPH:**

Here we plotted a graph for the given data in scatter that means dotted graph and line graph which is represented by a line.

To plot a scatter graph we use the command plt.scatter then it shows the below graph.

To plot a line graph we use the command plt.plot then it shows the below graph.

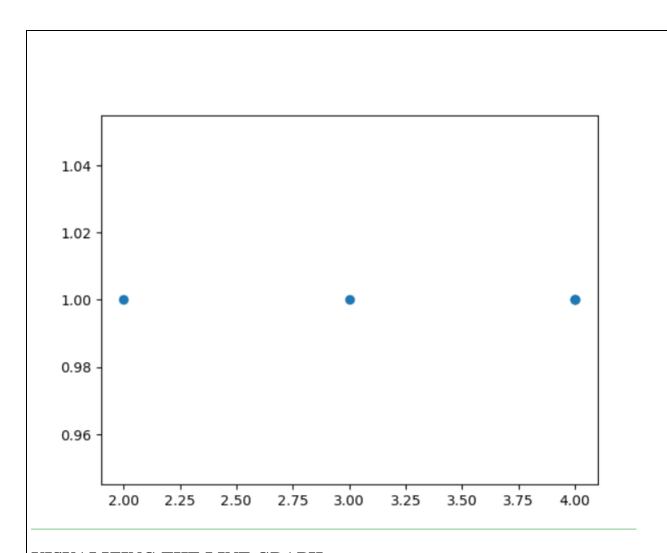
#### **LINE GRAPH:**

plt.plot(dsp.head())
plt.show()

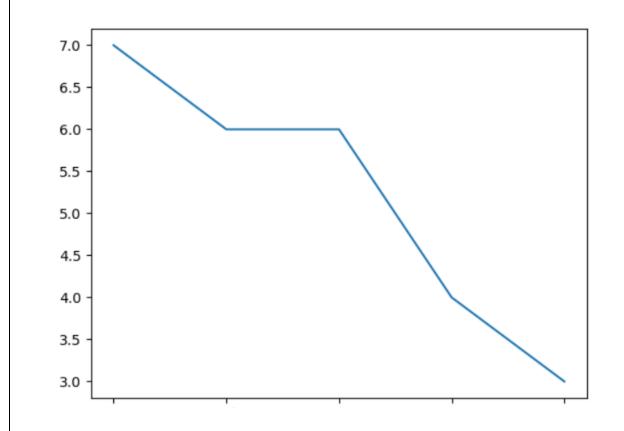
#### **SCATTER GRAPH:**

plt.scatter(age19p.head(),agep.tail())
plt.show()

#### VISUALIZING THE SCATTER PLOT:



# VISUALIZING THE LINE GRAPH:



<del>6</del>6

RI	ESULT:	
	Data analysis symmetrics as lighted data	
•	Data analysis summarizes collected data. It involves the interpretation of data gathered through the use of analytical and logical reasoning to	determine
	patterns, relation ships or trends.	
OI	UTPUT:	
		1
ma	Data output is the process and method by which data can be studied under different circumstance anipulated as required by the researcher. Any statistical analysis produces an output data that needs to	es and be studied.
		41 6

### **SUMMARY**

In this project, we aimed to develop a STUDENT DATABASE ANALYSIS USING PYTHON, with a focus on data techniques which are implemented in Python.

Data Analytics is used in a large data sets to extract the informative data, and analysing the data with plots, graphs and other techniques.

**PANDAS**: Pandas provides functions to handle missing data, perform mathematical operations, and manipulate the data.

**MATPLOTLIB**: Matplotlib library is commonly used for plotting data points and creating interactive visualizations of the data.

**NUMPY**: Numpy can be used to perform a wide variety of mathematical operations on arrays.

## **Benefits:**

- Improved data techniques, which can lead to understand the data easily.
- Improved graphs to visualize the data.
- Data analytics techniques enable a business to take raw data and uncover patterns to extract valuable insights.
- Easy memory management.